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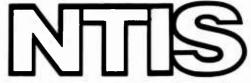
THE EFFECT OF DIMENSIONS AND DYNAMIC IMBALANCE OF PROJECTILES UPON BALLISTIC PREFORMANCE

A. S. Jennings

Naval Weapons Laboratory Dahlgren, Virginia

November 1973

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THE EFFECT OF DIMENSIONS AND DYNAMIC IMBALANCE OF PROJECTILES UPON BALLISTIC PERFORMANCE

A. S. Jennings

Engineering Department



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FOREWORD

This study was conducted at the request of NAVORD ltr ORD-0841/356:ANC of 23 October 1970. It is part of the design agent work being done at NWL. The main purpose was to determine if specific physical characteristics of a projectile have an effect upon its ballistic performance. The ultimate goas was to correlate laboratory tests and dimensional inspection data with ballistic tests in order to substitute laboratory tests or body measurements as an acceptance criteria in lieu of the current ballistic testing. This report summarizes the testing and analysis on selected physical parameters.

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ABSTRACT

The dynamic imbalance and physical dimensions were measured on a number of 5"/38 MARK 66 MOD 0 projectiles. These projectiles were ballistic tested. Statistical techniques were used to correlate ballistic performance with measured projectile characteristics. A dynamic imbalance of 10 inch-ounces or less does not have a significant effect upon the ballistic performance of the subject projectile. Three of the projectile body dimensions had effect upon ballistic performance of the projectiles for the range of data analyzed. Dynamic imbalance can be predicted fairly well by knowing the total indicated reading (eccentricity) of the projectile cavity at several locations. Further studies of this type are needed to define a complete set of parameters which would insure acceptance in ballistic tests.

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I. INTRODUCTION

Naval projectile bodies are ballistic tested at the Naval Weapons Laboratory to determine if a lot of projectiles are of acceptable quality. Five projectiles (inert loaded and fitted with a dummy nose plug) are tested from each lot of projectiles. A lot is defined as a group of 500 projectiles manufactured by a vendor. The sample of five projectiles from a lot is selected at random and is representative of the lot.

The D/R ratio (Dispersion/Range) is used as an acceptance criterion. This ratio is determined from the ranging data of five ballistic tests and is computed for each lot. D/R is defined as the mean deviation divided by the mean. This parameter is a measure of relative variation of the range for a given lot. The range is the distance from the gun to the impact point of the projectile.

In order to compute D/R it is necessary to compute a corrected range (Rc) for each test. Corrected range is the actual range which has been standardized to standard conditions of ballistic density, range wind, initial velocity, and impact height.

D/R is computed as follows:

$$D/R = \left[\frac{1}{N} \sum_{c=1}^{N} |Rc - \overline{R}| / \overline{R}\right] 100$$

where

Rc = corrected range

 \overline{R} = average corrected range

N = number of tests

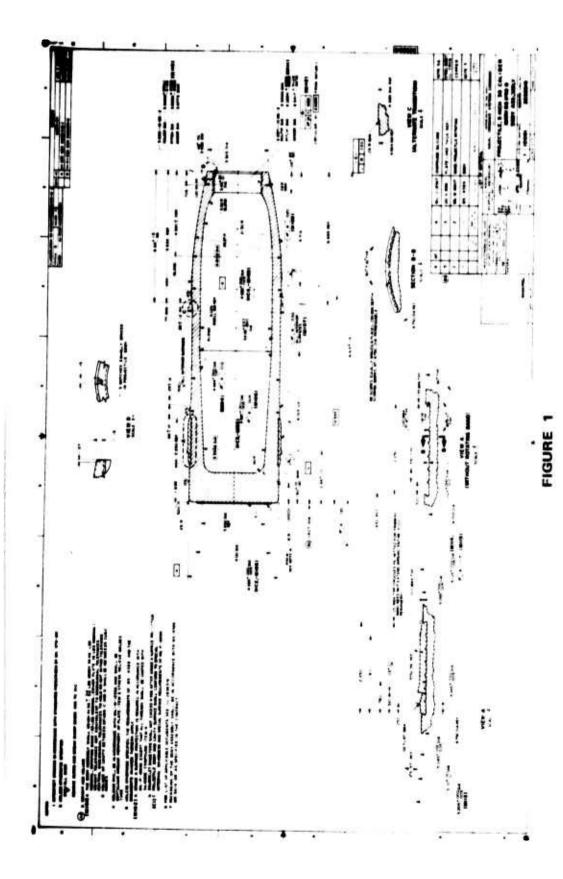
A lot of projectile bodies is accepted from the vendor if the D/R is 0.70% or less; otherwise, the lot is rejected or a retest is conducted.

The ballistic test criterion described above is a fair acceptance test for projectile bodies but it does not provide necessary information for the manufacturer to determine the quality of the projectile before ballistic testing.

This study was conducted to investigate the sensitivity of ballistic data to several projectile body physical parameters. The goal was to find parameters that would either eliminate or decrease the ballistic tests that are conducted by the Navy and would enable the manufacturer to check for the conformance of the ammunition to documentation. Three factors were considered: (1) dynamic imbalance, (2) dimensional inspection of the projectile body, and (3) the correlating of dynamic imbalance and dimensional data.

II. DESCRIPTION OF MATERIAL

The projectile bodies used in this study were shipped to the Naval Weapons Laboratory for ballistic acceptance tests. They are 5"/38 MARK 66 MOD 0 projectiles manufactured by Landsdowne Steel and Iron Corporation, Morton. Pennsylvania. Figure 1 shows the projectile body configuration. The projectiles were manufactured under contract number N0010468C5481. Projectiles from lots 33-197 are included in this study. Lots 1-33 were not included due to the fact that the production of the subject projectile had reached lot 32 when this program was initiated. The dynamic imbalance study encompassed lots 33-197, which was 824 projectiles. Lots 62-96 (155 projectiles) were included in the dimensional inspection study.



Drawing of a 5"/38 Mk 66 Mod 0 Projectile Body

III. TESTS AND PROCEDURES

A. Dynamic Imbalance Test

This test was conducted on a Gisholt balancing machine shown in Figure 2. The projectile is placed on two sets of rollers such that the rollers contact the projectile at the aft and forward bourrelets. Figure 3 shows distances between the rollers and the projectile base. A paper band (see Figure 2) graduated in 5° increments is placed on the periphery of the projectile to obtain the angular location of imbalance (heavy side). Angular locations were the same for a given projectile in the empty and inert loaded condition.

The projectiles are rotated at a speed of approximately 850 RPM (a 5"/38 projectile exits the gun at 12,500 RPM). Dynamic imbalance is measured at the rear bourrelet (called right plane) and at the forward bourrelet (called left plane). This imbalance is expressed in inch-ounces. A stroboscope is used to measure the angular location of imbalance from the paper band. This angle is measured for each plane and then the angle of separation between imbalance of the two planes is determined disregarding the direction. Consequently, the angle of separation of imbalance is always 180° or less.

Dynamic imbalance, angle of separation, and center of gravity was measured on 824 projectiles. These data were taken on the empty projectile bodies and also on the projectiles after preparation for ballistic testing which includes inert filling the cavity and installing a dumny nose fuze. The data are given in Appendix A with ballistic results for each test.

B. Dimensional Inspection of Projectile Bodies

Numerous measurements were taken on the body in order to obtain a good dimensional interpretation. A Cordax measuring machine (Figure 4) was utilized to take the measurements. This machine has a movable probe which can be moved in the X, Y, and Z planes. A computer is coordinated with the machine for computations.

The projectile is placed in a modified lathe chuck and aligned so that the bourrelets are true within 0.001 prior to measuring. All measurements were taken with the bourrelets as reference points. Figure 5 shows the measurements and their locations.

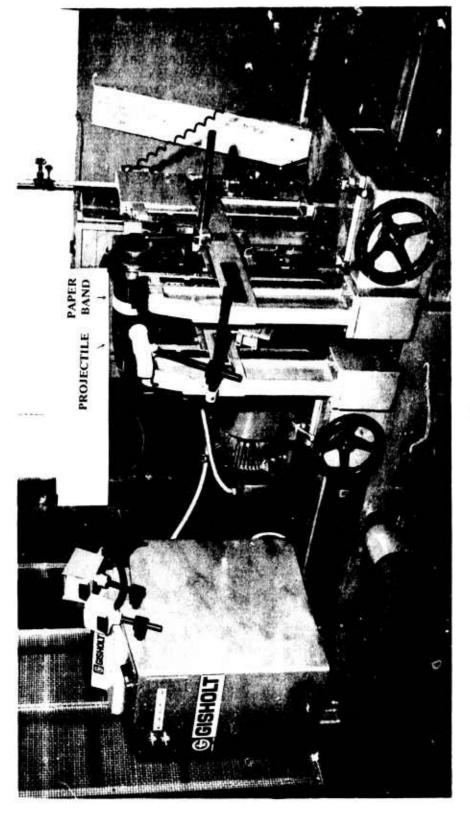
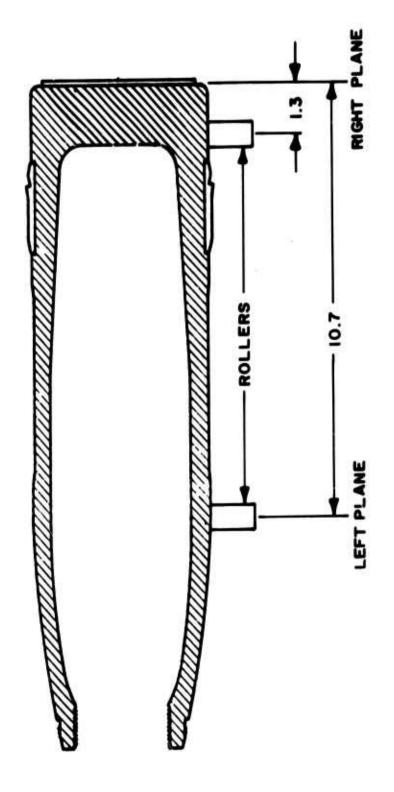


FIGURE 2

Dynamic Imbalance Testing Machine With Projectile Body on Machine



5"/38 Projectile Dynamic Balancing Set-Up

FIGURE 3

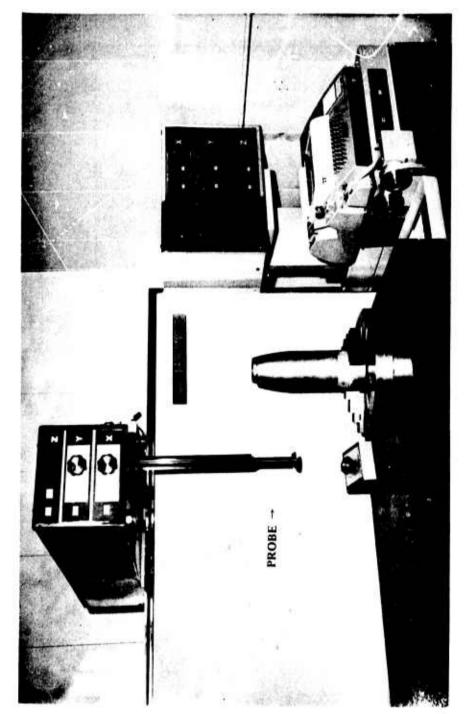


FIGURE 4

Gauging Machine Set-Up for Measuring Projectiles

The total indicated reading (TIR), may also be called eccentricity, was computed as shown in Figure 6. This TIR was computed from the X-act and Y-act data given in Appendix B. It was computed at various locations within and outside the projectile. However, the outside TIR did not vary to any degree due to the aligning on the bourrelets.

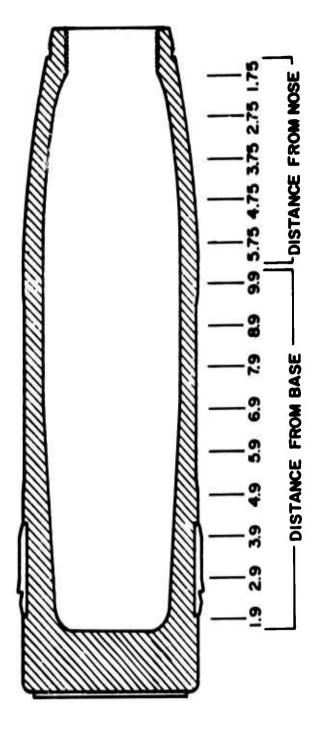
Data in the Z3 category of Appendix B was used to compute the angle of the nose threads (threads for nose fuze) relative to the bourrelets. It was thought that a misaligned fuze would cause the projectile to be unstable in flight. Figure 7 shows an adapter which was placed in the nose to facilitate taking measurements at the L_1 and L_2 positions. Trigonometric functions were used to compute the thread angle relative to the bourrelets.

Data were obtained from the Cordax machine and then processed via computer to facilitate later analysis. These data are given in Appendix B for the 155 projectiles inspected.

C. Ballistic Tests

The projectiles which were dimensionally inspected and had the dynamic imbalance measured were ballistic tested at NWL. Appendix A gives the meteorological data, lots tested, and date of ballistic testing. Initial velocity, range (yards), and drift (yards) were also measured for each test. All tests were conducted at 15° gun elevation.

Lots 62-96 were included in the dimensional inspection study. These projectiles were ballistic tested on four days. Lots 33-197 were included in the dynamic imbalance study. These projectiles were ballistic tested on 17 days.

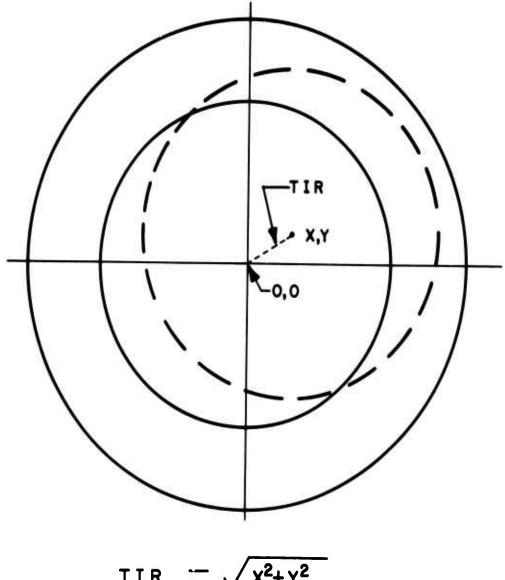


MEASUREMENTS AT EACH LOCATION: OUTSIDE TIR, OUTSIDE DIAMETER, INSIDE TIR, INSIDE DIAMETER

OTHER MEASUREMENTS: BASE THICKNESS, TOTAL LENGTH

FIGURE 5

Location of Projectile Measurements



 $=\sqrt{X^2+Y^2}$ TIR

FIGURE 6

Transverse Section of a Projectile Showing Normal Inside Wall and an Off Center Inside Wall

IV. ANALYSIS AND RESULTS

Statistical techniques such as regression analysis and analysis of variance were utilized to analyze the data of the two studies. Analyses of the two studies will be discussed separately even though the approach was nearly identical. Then relationships between the two studies will be discussed. Three criteria were used to evaluate the importance of the variables under study; they are: (1) The standard error, (2) multiple correlation coefficient, and (3) the F-ratio. It was decided that a variable should meet the criteria of all three tests before it would be considered significant in its influence upon ballistic range. The standard error should decrease, the multiple correlation coefficient should increase, and the F-ratio should be significant in order that a variable be considered to have an influence upon ballistic range.

It is known from previous work that weather conditions and initial velocity have an influence upon the range of a projectile. Therefore, the first step in each study was to remove the effect of weather and initial velocity and then determine if additional variables can be added to a model from a statistical standpoint. If additional variables can be added to the model then they have an effect upon the ballistic performance as measured by the range.

A. Dynamic Imbalance

Dynamic imbalance data are shown in Appendix A. These data were gathered on 824 projectiles. These projectiles were ballistic tested and the ranging data obtained. Figures 8 and 9 show histograms of inert loaded imbalance data given in Appendix A.

Statistical analysis of the data (Table 1) showed that neither right imbalance, left imbalance, separation angle, or center of gravity of inert loaded projectiles have an important effect upon ballistic range of this projectile for the range of data studied. It can be seen from Table 1 that the standard error decreased markedly by adding ballistic density, initial velocity, range wind, and cross wind to the model to a value of 71.4. Adding additional variables to the model did not appreciably lower the standard error.

The multiple correlation coefficient (mcc) increased substantially by adding ballistic density, initial velocity, range wind, and cross wind to the model to a value of 0.960. Note from Table 1 that the adding of the other variables does not increase the mcc. Therefore the adding of the additional variables to the model did not explain any additional variation in the performance of the projectile.

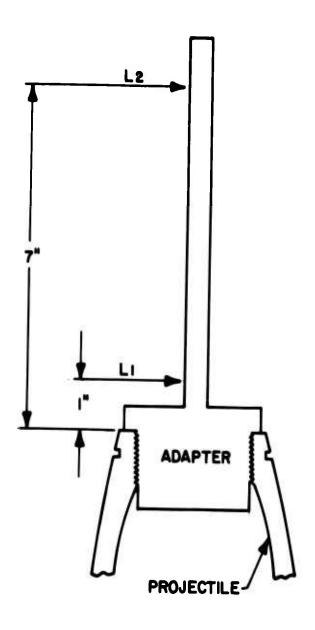


FIGURE 7

Nose Area of Projectile Showing Adapter Inserted for Taking Measurements

N E BAN	824	RANGE VARIANCE	9.83000	COEF. VAR.	. 55510
MEDIAN	.80	STD. DEV.	1.6488	NO. OF CFLLS	
MAXIMUM	•	_	.2000		
CELL. MID.	FRFQ				
.2000	74	××××			
288		XXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	×	
377	3 200	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	×	
994		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	XXX	
555		XXXXXXXXXX			
944		×××××××			
733	3 21	XXX			
7.8222	v.	×			
911		×			
ů. O		×			

FIGURE 8

Histogram and Statistics of 5"/38 MARK 66 MOD 9 Projectile Dynamic Imbalance (Right Plane)

7	324	351.Vc	16.0370	COFF. VAP.	.46354
MEAN	4.39786	VARIANCE	4.13869	SKTWVESS	. 71138
MEDIAN	4.20013	STN. DEV.	2.03438	NO. OF CELLS	13
MAXIMUM	13.23550	MOWILL	. 20000		ı 1
CELL. MID.	C B c B				
. 200	O.	×			
1.3111	. 86	XXXXXXXXXXXXX	××		
2.4222		XXXXXXXXXXXXXXXXX	×××××		
3.5333	176	XXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXX	XXX	
4 4 4 6 4 4 4		****************	×××××××××		
5.7556		XXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXX		

FIGURE 9

Histogram and Statistics of 5"/38 MARK 66 MOD 0 Projectile Dynamic Imbalance (Left Plane)

XXXXXXXXXXXXXXXXXXXXXXX

XXXXXXX ××××

89 42 21 3

9.5889 1..2000

4.6444 5.7556 6.8667 7.9778

TABLE 1

ANALYSIS OF DYNAMIC IMBALANCE DATA

	F-RATIO (1)	7330 ***	1500 ***	850 ***	157 ***	78.5***	10.2***	0.7 MS	1.2 MS	0.1 88
	MULTIPLE CORRELATION COEFFICIENT	.832	.913	.956	.92	096.	096.	096	096.	096
	STANDARD	140.7	103.5	74.6	98.9	71.4	0.17	71.4	71.4	71.4
	CENTER OF GRAVITY									×
	SEPARATION CENTER OF ANGLE GRAVITY								×	
	LEFT							×		
VARIABLES IN MODEL	RIGHT						×			
VARI	CROSS				×	× :	× ;	κ :	× :	×
	RANGE		,	×		× ;	≺ >	٠,	≺ ;	×
	INITIAL	*	٠,	٠,	٠,	≺ ,	< >	٠,	٠,	∢
	BALLISTIC DENSITY x	(»		٠ >	٠,	< >	.	٠ >	(>	•

(1) This F-RATIO is for the significance of the added variable *** Significant at 99 percent probability level NS - Not significant

Right imbalance was determined to be significant from the standpoint of the F-ratio at the 99 percent probability level. None of the other variables other than weather and initial velocity were significant with respect to the F-ratio. Even though right imbalance was important with respect to the F-ratio it failed to meet the criteria of decreasing standard error and increasing the mcc.

Based upon this analysis it has been determined that a dynamic imbalance of 10 inch-ounces or less does not have a significant effect upon the range of this projectile. The angle of separation between the imbalance of tne two planes did not have an effect upon performance either. This angle varied from 0° to 180°. The center of gravity varied from 7.58-7.82 inches from the base and did not have any effect upon ballistic range.

Figures 10 and 11 show the relationship between empty dynamic imbalance and inert loaded dynamic imbalance for the two planes. A small part of the data (170 out of 824) was used here for the scatter diagrams since plots of all the data are not practical. It can be observed from Figure 10 that there is a fair relationship between empty dynamic imbalance and inert loaded dynamic imbalance for the right plane (rear bourrelet). Generally, the inert loaded imbalance is about 1 unit less than the empty imbalance. Figure 11 shows that there is no relationship between empty imbalance and inert imbalance for the left plane (forward bourrelet). There is no proved explanation for this lack of relationship. However, it may be caused by the variation in height of the inert filler within the projectile cavity. The height of the filler within the cavity can be quite variable due to the volume variation of projectile cavities since all the inert loaded projectiles were brought to the same weight for ballistic testing (55.18 pounds).

B. Dimensional Inspection Data

Inspection data are given in Appendix B. These data were gathered on 155 projectiles. These projectiles were ballistic tested and ranging data obtained. These 155 projectiles were a subset of the 824 projectiles of the dynamic imbalance study.

A different technique was required to remove the effect of weather in this study since the ballistic testing was performed on only four days and not 17 as in the imbalance study. Blocking (a statistical technique) was used to remove the day-to-day (or weather) effect. Table 2 shows the analysis. The effect of days was highly significant with respect to the F-ratio. The addition of initial velocity to the model was highly significant with respect to the F-ratio also. This variable also meets the other two criteria by reducing the standard error and increasing the multiple correlation coefficient substantially. Table 2 shows the results of adding the

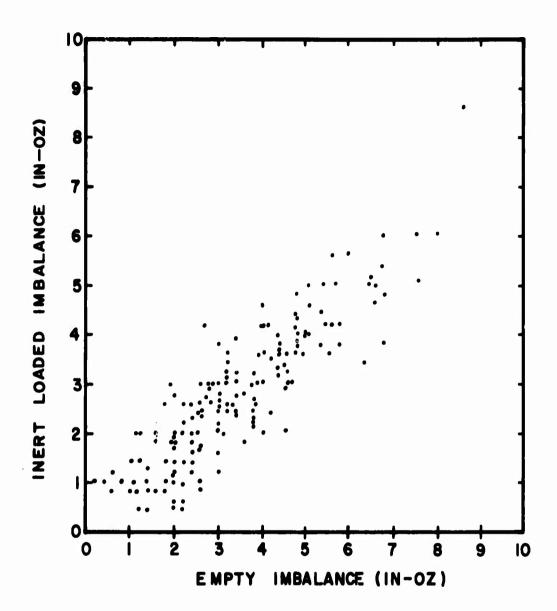


FIGURE 10

Scatter Diagram of Relation Between Empty Projectile Imbalance and Inert Loaded Imbalance in the Right Plane (Rear Bourrelet) for 5"/38 Mk 66 MOD 0 Projectile

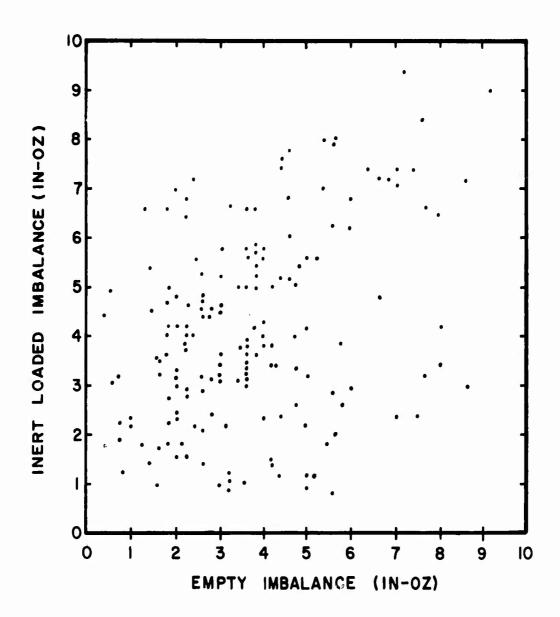


FIGURE 11

Scatter Diagram of Relation Between Empty Projectile Imbalance and Inert Loaded Imbalance in the Left Plane (Forward Bourrelet) for 5"/38 Mk 66 MOD 0 Projectiles

TABLE 2

ANALYSIS OF DIMENSIONAL INSPECTION DATA

	F-RATIO (1)	:	:	8.33***	7.80***	3.23*	2.09 NS
	F-RAT	336	185	8.3	7.8	3.2	2.0
	MULTIPLE CORRELATION COEFFICIENT	.702	.874	188.	. 888	088.	.892
	STANDARD	86.5	59.5	57.8	56.5	56.0	55.8
	INSIDE TIR 5.9 FROM BASE						×
DEL	PROJECTILE LENGTH					×	×
VARIABLES IN MODEL	INSIDE TIR 3.75 FROM NOSE				×	×	×
Α,	FORWARD BOURRELET DIAMETER			×	×	×	*
	INITIAL		×	×	×	×	×
	DAYS	×	×	×	×	×	×

(1) This F-RATIO is for the significance of the added variable

*** Significant at 99 percent probability level

Significant at 90 percent probability level

four most important dimensions (as selected by the computer program) to the model in addition to days and initial velocity. Three dimensions (forward bourrelet diameter, inside TIR 3.75 from the nose, and projectile length) have a significant effect upon ballistic range. These three dimensions meet the three statistical requirements as discussed earlier and can be seen in Table 2. None of the other dimensions had an effect upon ballistic range for the range of data analyzed. Statistics of the data analyzed are given in Table 3. Appendix C shows histograms and statistics of the measurements. Most of the measurements were fairly normally distributed.

Figure 12 shows the location and order of importance of the three significant projectile measurements with respect to ballistic range. The following model or regression equation was derived incorporating the significant variables which influence ballistic range:

$$R = 46783.4 + 97.6X_{1} - 22.8X_{2} + 60.8X_{3} + 6.086 \begin{pmatrix} INITIAL \\ VELOCITY \end{pmatrix}$$

$$-9152.844 \begin{pmatrix} FORWARD \\ BOURRELET \\ DIAMETER \end{pmatrix} - 2380.307 \begin{pmatrix} INSIDE \\ TIR 3.75 \\ FROM NOSE \end{pmatrix}$$

$$-289.044 \begin{pmatrix} PROJECTILE \\ LENGTH \end{pmatrix}$$

Where

$$R = range (yds)$$

$$X_1$$

$$X_2$$
blocking for days
$$X_3$$

This equation has a multiple correlation coefficient of 0.890. The square of this number implies that this equation explains 79.2% of the variation in ballistic range.

The model may be interpreted as follows: (1) range is increased 6.086 yards for each ft/sec increase in initial velocity, (2) range is decreased 9.152 yards for each 0.001 increase in the forward bourrelet diameter, (3) range is decreased 2.38 yards for each 0.001 increase in the inside TIR at 3.75 from the nose, (4 range is decreased 2.89 yards for each 0.01 increase in the projectile length.

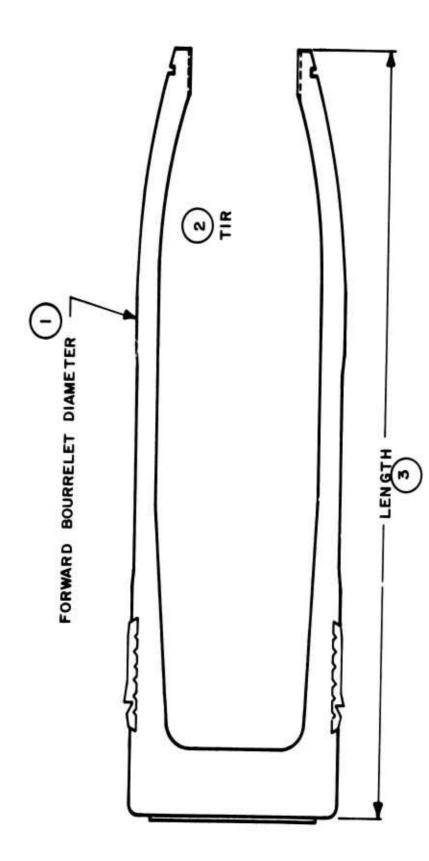


FIGURE 12

Location of Significant Projectile Measurements and the Order of Importance

TABLE 3 5"/38 MARK 66 MOD 0 PROJECTILE BODY STATISTICS

MEASUREMENT LOCATION (in)	AVERAGE (in)	MAXIMUM (in)	MINIMUM (in)	STANDARD DEVIATION	RANGE (in)
		INSIDE DIA	AMETER		
1.9* 2.9* 3.9* 4.9* 5.9* 6.9* 7.9* 8.9* 9.75** 1.75**	2.960 3.369 3.486 3.605 3.723 3.839 3.924 3.927 3.931 3.934 3.896 3.733 3.470 2.930	3.113 3.390 3.523 3.689 3.847 3.994 3.994 3.994 3.965 3.923 3.817 3.549 3.041	2.701 3.334 3.462 3.576 3.694 3.810 3.905 3.907 3.908 3.911 3.856 3.653 3.386 2.804	.059 .010 .010 .012 .023 .022 .011 .010 .009 .011 .035 .032	.412 .056 .061 .113 .153 .184 .089 .087 .086 .054 .067 .164 .163
	(OUTSIDE DIA	AMETER .		
1.9* 2.9* 3.9* 4.9* 5.9* 6.9* 7.9* 8.9* 5.75** 4.75** 1.75**	4.983 5.124 5.124 4.984 4.957 4.957 4.956 4.956 4.957 4.983 4.887 4.701 4.437 4.094	4.988 5.128 5.128 4.989 4.966 4.965 4.967 4.987 4.987 4.899 4.712 4.449 4.105	4.976 5.119 5.119 4.978 4.949 4.945 4.946 4.945 4.980 4.880 4.692 4.426 4.082	.002 .002 .002 .004 .004 .004 .005 .002 .003 .003	.012 .009 .009 .011 .017 .021 .019 .022 .035 .007 .019 .020

^{*} Distance from base ** Distance from nose

TABLE 3 (Continued) 5"/38 MARK 66 MOD 0 PROJECTILE BODY STATISTICS

MEASUREMENT LOCATION (in)	AVERAGE (in)	MAXIMUM (in)	MINIMUM _(in) CATED READ	STANDARD DEVIATION	RANGE (in)
1.9* 2.9* 3.9* 4.9* 5.9* 6.9* 7.9* 8.9* 5.75** 4.75**	.014 .013 .012 .011 .011 .011 .011 .012 .013 .012 .010 .010	.053 .046 .033 .030 .029 .026 .025 .032 .043 .038 .035 .035	.002 .000 .001 .001 .001 .001 .000 .001 .002 .000 .000	.009 .008 .007 .006 .006 .005 .005 .005 .007 .007	.051 .046 .032 .029 .028 .025 .025 .025 .031 .041 .038 .035
Base Thickness Length Thread Angl	1.533 16.645 e .002	MISCELLAN 1.626 16.726 .005	1.435 16.493 .000	.037 .037 .002	.191 .233 .005

^{*} Distance from base ** Distance from nose

Tolerances (from Figure 1) of the three significant measurements are as follows:

Measurement	Tolerance (inches)	Effect on Ballistic Range
Forward Bourrelet diameter	4.985 ⁺ .000 005	45.7 yds
Inside TIR 3."75 from NOSE	.000050	119.0 yds
Projectile length	16.63 ± .15	86.7 yds

The right column is the effect the measurements would have on ballistic range from the minimum to the maximum tolerance. These were determined by multiplying the coefficients in the above equation by the range of the measurement tolerance. It can be observed that inside TIR 3."75 from the NOSE and projectile length can have a sizeable effect on ballistic range for the current tolerances. The tolerances of these measurements should be decreased to about half of the current value because of their effect on ballistic performance.

C. Relationship Between Dynamic Imbalance and Projectile Dimensions

TIR measurements were taken at 17 locations inside the projectile cavity. These 17 measurements give a good representation of the eccentricity of the inside cavity relative to the bourrelets. These data are given in Appendix B at various distances from the projectile base (Z1 locations) and from the projectile nose (Z2 locations).

Multiple regression techniques were used to determine if dynamic imbalance could be predicted from projectile inside cavity TIR measurements. Sixty-five projectiles were used for this study from lots 62-74. Dynamic imbalance data for empty projectiles (Appendix A) were used. The right and left planes were investigated separately. The dynamic imbalance can be predicted fairly well by using the inside cavity TIR at three locations for the right plane and also for three different locations for the left plane. All 17 locations were evaluated in the regression work but only three locations were statistically significant for each plane. These three inside TIR measurements significantly influence the right plane (base bourrelet) dynamic imbalance: TIR 4.9 inches from base, TIR 8.9 inches from base, and TIR 2.9 inches from base. Note that these three locations are in the area of the rear bourrelet (see Figure 5).

The following three inside TIR measurements significantly influence the left plane (forward bourrelet) dynamic imbalance: TIR 9.9 inches from base, TIR 3.75 inches from NOSE, and TIR 2.75 inches from NOSE. Note that these three locations are in the area of the forward bourrelet (see Figure 5). The following equations were derived by regression analysis to predict dynamic imbalance from TIR measurements:

Right Plane (Base Bourrelet)

$$DI = 0.096 + 78.4845 {\begin{pmatrix} INSIDE TIR \\ AT 4.9 IN \end{pmatrix}} + 135.7693 {\begin{pmatrix} INSIDE TIR \\ AT 8.9 IN \end{pmatrix}} + 100.2835 {\begin{pmatrix} INSIDE TIR \\ AT 2.9 IN \end{pmatrix}}$$

This equation explains 87% of the variations in dynamic imbalance.

Left Plane (Forward Bourrelet)

$$DI = -0.246 + 188.2139 \binom{INSIDE\ TIR}{AT\ 9.9\ IN} + 110.5646 \binom{INSIDE\ TIR}{AT\ 3.75\ IN} + 52.662 \binom{INSIDE\ TIR}{AT\ 2.75\ IN}$$

This equation explains 84% of the variation in dynamic imbalance. These equations validate the fact that dynamic imbalance is caused mostly by the eccentricity of the inside cavity of the projectile.

V. CONCLUSIONS

- (1) A dynamic imbalance of ten inch-ounces or less does not significantly influence the ballistic range of a 5"/38 MARK 66 projectile.
- (2) Three projectile body dimensions had a significant effect upon the ballistic range of a 5"/38 MARK 66 projectile.
- (3) Dynamic imbalance is highly correlated with total indicated reading (eccentricity) of the inside projectile cavity.
- (4) None of the tests studied seems to be a substitute for ballistic testing of projectiles as an acceptance test.

APPENDIX A

Dynamic Imbalance Data

									I	INEST LO	10136			1	44044		
									AIGHT PLANE	LEET	PLANF	CENTER	RIGHT PLA	ANE	LEFT PLENE		CENTER
C		_	RAPLOS	1 1 1 C	INTIAL	BALLISTIC Density	207 E	SSGCO	CHTCX AC	00	CIPATIO	CRAVITY	DANBAT	O I			OF STAY
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7-97	33		_		25 51	99.34	6.20				2.	7.5	7. 4	1 9 0	6.2	150	6.54
(1-00-7)	M 1		•			93.34	6.25	2.01			3	7.25	3.4	110	1.2	2 - 3	6.54
21-07-1	י ה					40.34	بر ، ۲	2.51	2.6		3.4 240		4.2	5	٠. ٥	429	5.55
[/-gr-/	3.5		_			99,34	6.25	2.51			3.	`		230	3.2	25.3	6.52
[7-0-7]			•••			43.84	6.20	2.51			6.0			113	0.,	93	6.5.
7-99-73	*		_			99.34	6.35	2.51			5.2 340	~	S.	0 c E	3.6	067	6.52
7-26-73	n m		•			47. 34	6.23	7.51			7.2 35		6.6	34.3	1	41.9	6.50
7-9-13	3 1		•			99.34	6.25	2.51			3.8 6.		•	-	4.2	368	6.54
1-9-1	, m					99.34	V	7.51			1.0 36		€0 €1	230	* . *	15	6.52
7-99-1	9 1				2	43.36	9.50	2.51			3.2 22			170	5.0	270	6.52
7-63-1	2 ,				2	72.06	٥.	2.51		•	13		1.8	263	2.6	130	6.52
7-25-7	2 1				vi t	7	6.4.25	1 · · ·	N.	-	11			6	1.4	135	6.53
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7-10-1	D .!					9 .00	5.63	15.2			9.8 15			•	6.3	129	6.50
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7	0 6				vr	77.66	5.67	2.51		3	•			120	9.0	123	6.53
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7-15-7					ur	7		1.57						-	2. B	7	6.53
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7-10-7	6.0		-			99.34	6.26	2.51	2.3		0+ 7-5			5.3	7.2	7.5	£ . E 2
(1-6)	σ.					99.34	5. 25	2.51				7 7 6 7	1.2	173	0.,	1.0	6.51
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9-17-70	53	t T	103	124	15.5.		1.95	1:001-	2	0	.,	7 67	. 5.6	2.3	1 33	2.6	6 2 3	9.0
9-17-73	53	35	,	115	2534			-10.51		7.3	•		90.	7.6	190	5.6	2 . 3	6.59
9-17-73	1 1	on 6	7	117	27.31	DA - 45				€1 •1	•	340 7	.5.8	3.4	130	* · 6	10	6.56
1 - 1 - 1	. t	25	1 .	113	1,67		1.93	1.7	6	01	,		• 6	3.0	30	2.2	2	4.55
8-17-79	י ה ע		7 6	11	4567			-10.51		5.0	4 (7 041	99.	*	179		200	6.57
8-17-73	7 7	7 in	2	117	7557			117				-	6/2	3.6	7.29	9	E 9.2	6.53
3-17-73	5.5	1		110	2527	27.72			. 6	7 E			9	0 - 2	1 1 2		0 .	9 4 4
3-17-73	52	95	193	117	2525		1 . 4 :	6	1.6 2	6		140 7	. 59	2.2	300	2.6	2	6.56
9-17-73	52	93	153	116	2527		1.85	C	ď	ů.	-C		.66		259	2.6		6.59
9-17-73	5.	6	€ D ≥	116	2530	67.79	1.45	~	٠	-	1.0 2	293 7	.64	3.6	0	4.4	2	6.52
-11-1	ري د د	ar i	in 0 i	112	2557		1 . 9		æ	767	٠.		. Y	5.0	300	6.3	346	65.9
9-17-13	, r	or (6		2519	91.7	1.97	C		C	٨,		ŝ.	5.4	333	5.6	664	95.9
3-1/-/1	50	r c	195	711	2220		1 . A .	3	€.	23		123 7	. 7.	6.2	0 7 2	5.4	1 30	6.52
3-11-15	0 Y	2 0	0.0	113	2000		1 . 35		٥.	5 6	٠.		. 73	2.9	113		110	6.5
1-17-7	9 4	† V	100	1 -	25.20	27.72		-16.51		7 .	ο.	140	D /	2 2	3 40	1.2	210	9 .
9-17-73	5.7	91	11912	116	2513		3		۰,	120		•			n c	* * *		9 4
8-17-73	23	32	191	111	2527		1			E			99	7 - 4				9 4
3-17-73	25	3.5	133	117	2528		1.4	-10.3		r,	2		7.79	2.0	120		2	6.5
8-17-73	25	7	-6-	112	2528		1.33		1.6	63		•	34.	2.2	269	5.6	250	6.58
3-1/-73	25	ED (6	F 10 3	2728		<i>.</i>	;		D +1	• 6		10.	5.9	210	6.2	193	5-1.2
1-1/-/	20	16	0	115	2552		1.9	-13.3		10	۲,		. 70		340	2.4	() e r	6.62
3-17-7-		7. 6		711	2515			- 4 3		9 1	۰ و	r i		4 .	14	5.6	767	4.60
9-11-13	0 0			111	4 6 2 6						5 (• 5 J	1.0		••	2	4.56
-1/	0 4	0 0	, ,		2252	97.70			~ .	n (۲.		27.5	3.6	323	;	150	6.60
8-17-1	n d	2	,	611	0 4 6 6			;		- 6	٠,		2/•	, ,	0 0	• •	6	6.56
3-17-7		1 6		• •	1 36		•) f	£	343	3	4.	25	9.9	e ;	5.5
3-17-5	י מ	, ~		7 4	20.00		^ ·	1		2 0			٠٥٠	0) () (6.4
9-17-7-	. 6	2	2,0	1113	15.23	7.79	7		0 4	ם הים	ra			, ,	3 6		D .	7.50
9-17-73	5	10	1 3 7	117	25.11			•			•		. ^		1 6			
9-17-73	è		193	1 7	2517		1 . 9 .		2 - 2			2 054		~ ~) E) · ·	9 6) E. 4
3-17-73	,	51	243	117	555	97.76	1.4	-13.31	C 1				3	, 7	350		192	- C
9-17-73	60	93	193	115	5254	97.73	1		+	, u	2.5	. 6.	.6.3		160	1.4	140	6.56

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Column		9			INITIAL	AAL	ZANCE	Seed	RIGAT PL DYNAMIC	μ.: 2	7.4	ں چ	CENTER	PICHT PL	-	LEFT PLA		CENTER
		23	Y - 1	(YPS)	(FT/SEC)	- 6	(KTS)	CATS)	CIN-07)		BALANC N-321	w			~	BALANC N-FZ)	DEGS	CORVITY (IR)
10 10 10 10 10 10 10 10			٠		ŕ										•	İ		;
10 11 11 12 12 13 14 15 15 15 15 15 15 15			•					10.5		3 6	e e	6	١٩٠		250	•	120	6.62
10 10 10 10 10 10 10 10			-				•		2	71	,		. •		7 .		217	0.00
10 10 10 10 10 10 10 10			~				1.8	-10.31		14.0			. ^		479	9 4		9 4
10 10 10 10 10 10 10 10			-			97.73		-13.31		\$ 3.1			٠		1			
10 10 10 10 10 10 10 10			•			97.79	-		4.6	2	, ,	101	. 4		-			200
6.2 92 11191, 6.0 5216 110045 -5012 12077			-		232	97.73	-	-15.31	5.0	163	5.0	553			33		3	F. 6.2
11 12 13 13 14 15 15 15 15 15 15 15			-			100.95	ľ	12	5.0	6	2.5	7.0	7.59		120		130	6.55
6. 9. 1117.2			-			10	•	-12.57	5.	1.90		133	7.59		7.7	9.9	29.3	6.57
6.5 3 81 1145 9 6.9 5577 11455 9 5577 11455 9 557 1145 9 6.0 5 57 1145 9 6.0 5			~				S	-12.57	7.2	C	6.2	ç	^		5	5.6	53	65.5
5 5 11 11 12 12 12 12			-				-5.1	-12.57	9.9	26.1	7.3	270	7.59		00.	2.0	290	5.54
6.3 R. 11459			~			3	-5.12	-12.57	2.5	160	4.2	:	7.69		9	2.9	2	6.45
13 17 13 18 18 18 18 18 18 18			•		v	5	-5.1	12.		723	9.3	253	7.04		243	5.4	259	9.09
6. 18. 117.1			~		~		.5	-12.57			7.6	7	۲.		109	4.4	100	65.9
March Marc			-		e.	100.	-5.12	-12.57	2.8	153	•	234	•	9.,	163	2.5	193	6.56
64 3 45 1175 4			-		L.)	140.8	-5-12	w	1.6	543	•	30	7.45		153	1.0	250	6.73
11 11 1 1 1 1 1 1 1			н.			۳.	-5.12	L.	2.4	24.		340	7.47		250	·E.	210	6.62
11 12 13 15 15 15 15 15 15 15	-		-		~	۵.	-5.12	'n		7 .		193	۲.		233	2.6	6	9.09
10 10 10 10 10 10 10 10	٠,		٠,		N	100.85		٠		210		279	7.56		233	6.2	210	6.56
11772 1	,		٠,		v	13	5	•		176	1.2	4	7.70	•	-	3.2	*	6.55
65 34 1142	, ,		-		•		. I	·,		C 7 .	ec .	213	7 . 79		160			5.5
65 62 11 11 12 1 12 1 12 1 12 1 12 1 12			•				15	16.31	, 0	204				·	1	D .	2	
65 33 11844 35			•					-12.57		1 .	0 m	2 6 6	2		2 4	9 .		90.0
65 35 11/65 35 2 2 2 2 2 1						300	ı,	ď	~	16.9		4 7 8	7.65		9 6		22.0	4
65 95 11763 30 2625 100.45 -6.12 -12.97 6.0 344 7.2 10 7.67 5.2 10 6.9 11704 19 10.45 -5.12 -12.57 2.4 5.0 263 3.0 2.65 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	2		•			. 9	-5.12	. C.	m	190		333	7.56		6	1.0	130	6.53
			-		6.1	•	-4.12	12	r.	34.	7.2	-	7.67		-	6.9	-	6.53
11 12 12 13 15 15 15 15 15 15 15			~		,	145.50	-5.13	1.2.	9.4	623	3.0	543	7.69		250	3. A	43.0	6.55
65 85 11755 17 2513 155-85 -5-17 -17-57 7.6 360 6.6 69 7-62 7.7 7.6 360 1.0 6.6 69 7-62 7.5 7.6 6.6 69 7-62 7.5 7.6 6.6 69 7-62 7.5 7.6 6.6 69 7.6 7.6 6.6 69 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6			٠			۰.	-5.12	2.	2.4	323	۴.3	20	7.64		3 4 0		7.0	6.55
11 12 13 14 15 15 15 15 15 15 15	٠,		٠,				-5.13	ر د د		360	9.,	3	7.42	•	9	1.6	-	9.54
0.00 0.00			٠,				1	,	•	3 (0 1	5	9.0		110			6.53
67 87 1173 2 7 75.2 1 1.2.45 - 75.1 2 - 75.5 2 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	•		٠.			, ,	n,					2	100,		100	9	3.3	6.50
67 33 124-2			٠.				N 11	4.0	2.5	3			70.0			9.0	000	6-62
67 95 1179 72 2507 100.95 -9517 -12.57 3.6 110 5.0 140 7.69 3.6 120 3.6 120 3.6 120 5.0 110 5.0 110 5.0 140 7.69 3.6 120 3.6 120 3.6 120 5.0 110 5.0 140 7.69 3.6 120 3.6 120 3.6 120 5.0 110 5.0 110 5.0 140 7.69 3.6 120 3.6 120 5.0 120 5.0 110 5.0 140 7.69 3.6 120 3.6 120 5.0 12			• •				. 16	·		, ,	0 0	2 6			7 6		2 6	6.0
67 45 11779 72 2517 103.45 -5.12 -12.57 2.6 11.0 5.0 1.0 7.59 3.4 1.20 3.6 1.20 3.2 1.20 3.6 1.20 3.6 1.20 3.2 1.20 3.2 1.20 3.2 1.20 3.2 1.20 3.2			•) (.	u	7.5.5		3 6				•			2	
5 5 11 11 1 2 5 2 1 1 1 1 1 2 5 2 1 1 1 1			-) ()	,			. :			•	•				
6.8 32.1174 24 251 10.49 -5.12 -12.57 1.4 1.4 3.8 3.4 7.57 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5			•				61.5			25.7	1	4 4			7			
6.4 37 11/23 25 2615 11/45 -512 -12/47 445 30 540 55 740 446 55 740 446 57 54 57 57 54 57 57 54	-		-		101		-5.12	v		,	#F	, pr	7.5.4		4 14		4 4	
3 69 64 11747 34 2514 11445 -512 -12.57 31 324 2.8 34 7.46 3.8 33 7.2 36 6 6 6 11747 34 234 2.2 36 134 2.2 36 6 6 6 11747 34 2.2 374 2.3 374 374 374 374 374 374 374 374 374 37	_		**		6.3		-5	10	,	5	5.0	5						
68 85 11-73 5. LOIR 101-30 -5.17 -12-57 2.6 10 0.2 53 7.65 2.6 173 5.6 133 5.6			• •		173	1	r.	-122.57		37	**		7.50		7 3 3	2.2	6	4
0. 69 01.11633 35 25.0 101.55 -5.17 -12.57 7.6 710 7.8 33° 7.57 2.6 210 4.7 7.9 6. 1 69 83.11454 25 2019 100.50 45.17 12.57 5.3 101 5.4 11. 7.54 5.6 128 3.8 17* 5. 1 69 83.11452 29 751 102.45 -5.17 -12.57 4.5 783 7.64 5.2 740 8.0 740 8.0			-1		•		.5	-12.57		9	2.5	53	.65	٠.	7	5.5	133	
3 69 92 11/54 25 2019 100.50 -5212 -12.57 5.2 103 5.4 174 7.64 6.6 128 3.8 174 6. 1 69 83 11842 29 2514 142.45 -5212 44.0 784 5.4 243 7.64 5.2 240 8.0 280 8.4	,		~		25.	٠.	-2.13	-:2.57		213		3.32	70.7		017			6.69
J 69 83 118J2 29 2511 1J2,45 -12,57 4,0 78J J.4 243 7.64 5,2 340 8.0 280 8.E.	_		-		201		r	-12,57		103		7	7.04		27		17.	6.50
	-		-		2.1	•	1										,	

									INE	T LOADED					FHDTY		
J 2483c		31e0	-	INITIAL	GALEISTIC JEWSITY	D. JE	SSOCO	RIGHT PLAN	E .	FFT PLANE NYMAHIC BALANCE	!	CENTER	RIGAT PLI	A C P	LFFT PLA	W 0 L	CENTER
12 (YDS) (YNS)		SL A J	a	VI	(DESCENT)	¥	(KTS)	S	FG1 (I	170-N	3	27	12C-N1	(053)	(IN-02)	OFSI	CIN
			!	!					:		:					!	
	11777		8 2	2	72	-5.12	-12.57	6.0	160	2.4	121	7.43	7.6	113	2.8	9.0	4.56
11/54	11/54	٠,٠		25.25	102.23	1.75	21.63	• (ت ن	9 ° E	2	7.64		30	e (9	F.59
11716	11716		0	יוני	2.75	1.75	21.63	. .	3 .	•	1 1	7.11	9 0	100	2.5	16.	6.55
0	0			2	162.29	7.	2 4 5 5	· ~	0 0	2.5	26.3	14.4	1			100	D - 4
11713	11713		242	N	102.29	1.70	21.50	3.2	563		133	7.6	3.2	32.	7.0	160	6.53
11734	11734	٠	25.	2546	132.23	1.75	21.69	~	22.0		240	7.73	3.6	.30	4.0	60	.5
115+9	115+9	•	3	~;	O.	1.73	-11.50		24.5	3.2	253	7.71	5.3	21.9	0.2	273	6.45
11:24	11:24		25.	2	1.2.29	1.75		•	34.0		270	7.69	5.4	299	7.4	260	65.59
11635	11635		237		N.	1.75	21.63		100	1.3	437	7.72		20	1.2	6	6.62
0 .	0 .		240		1,2,29	1.75	71.50	2.4	,	1.0	90	7.72	5.6	353	5.4	E .	6.61
11/46	11/46		, . , .	25.55	N	1.7.	21.03	.c.	7		289	7.67		204	4.4	: 63	6.60
10	10		*	· ·	1.2.29	1.75	64.h.	•	٠ ا		3	7.76	4.9	3	2.0	300	6.54
11/29	11/29		710	6252	112.27	1.70			0,	3.5	2 4	7.72	1.6	159	3.6	9	6.57
11645	11645		2 5	4 ~	•	7.75	24.50	e =	7 17		26.0	24.4	2.5	2			20.4
11658	11658		237	171	. ~	1.75	21.53		253	7 E	200	MA		228	9 19	2.5	
11610	11610		212	252°	102.29	-	21.63		20	1.4	140	7.70	4.0.	4 40	1.6	30	
11697	11697		233	~	2	-	21.03	1.3	10	3.6	9	7.72	9.2	2.0	3.6	9	
1117	1117		100	62.5	132.29	7.1	21.53		971	o (290	1 0 1 6	2.0	100	m 1	20	
	1 1 1 1		233	1 1	142.29	1.75	20.12		120		24.0	7.75	3 40			128	
1165	1165		242	נר	102.29	1.75	21.64		00		169	7.73	2.6	198	2.0	150	6.58
11/1	11/1		234	61	1-2-29	1.75	21.50	3.6	36.9	3.8	350	7.74		100		300	9.60
1169	1169		5 2 2	~	102.29	1.75	21.60		4	3.6	99	7.73	3.2	ij		0	6.63
:170	:170		24.2	rv,	102.29	1.75	21.00	5.6		1.2	230	7.69	9.9	300		256	6.57
16.11	16.11			t c	105.53	15.65	5. 3.2	Λ. ·	000	2.4	2 4 5	7.76		0		190	6.63
1104	1104		171	u n	10.00	10.67	3.35	r c	550		150	7 7	200	0	9 0		6.54
1175	1175		139	616	135.53	0.00	7.32	. 2	8.3		36.9	7 - 7 -	2. 2	200		4 4	5.55
1177	1177		123	(,)	105.53	15.65	3.32	S	160		100	7.75		150		160	F. W
1173	1173		121	,v	105.53	10.65	7.32	0.4	510	4.6	223	7.75		16.0		469	6.66
118	118		160	Γ., 1	135.53	16.66	3.32	و	24.0	1.0	263	1.14	2.5	123		24.9	F.56
	6			2528	165.53	45.05	3.32	9	110	7.4	150	7.76		240	-	203	6.54
2 1 1 1	2 1 1 1		3	ν,		10.06	3, 72		6.0	2.5	5	7 - 49	2.4	170	m	220	6.63
1107	1107		1 1 2	~ .	in i	50.01	4.32		0 7	9.	313	7.74		140	÷	9	6.62
1172	1172		101	Λ.	š	15.55	3. 32	.9 (6 .	9.0		7.76	3.2	236	~7	173	6.53
1173	1173		10 1	151	160.03	16.66	3, 32		6.7	4.6	C .	7.30	٠.	6	2.2	209	6.57
3 7 1	3 7 1		2	2,3	125.53	15.65	4.37		32.3	.7	56.	7.74	3.8	6	7.4	20	6.50
11 80	11 80		90	~ (100.03	15.05	3, 12		5		90	7 - 7	1.0	289	ec m	263	95.9
111	111		136	9 (200.01	10.00			110	† ·	191	9 1	.,			E 6	6.54
. 1	. 1		, .	263	0 H 1 1 L	0.01		2 (2 .	3 6			,	30		2 1	0.73
2071	2071		1 / 1	25.26	56.5.5	12.00	32	. د	26	. M	9 6	7 7	• •	9 1	2.4	2 6 6	0.0
1 4 4 7	1 4 4 7		6	ı N	135.53	16.65	32		100		2 8.0	1.74		9 6		1 -	A. A.
	1163		131	2522	1.5.53	16.65	3.32	. 7	293	. 4.	360	7.75		. 9	9	7 4	6.50
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						•				INFRI	פד נסממרם					FHOTY		
JATE TESTED	101	202	(3 (7)	CRIFT	INITIAL V°LJCITY (FT/SEC)	SALLISTIC DF4SITY (PFRCENT)	AANGE WIND (KIS)	CROSS	PIGHT PLAN NYNAMIC PALANCE CIN-022 CO		LEFT PLANT OYNAMIC RALANCE		CENTER OF GRAVITY	RIGHT PLANE UYNAMIC 9ALANCE	i	LFFT PLANE DYNAMIC PALANCE	و بور پو	GENTER
		!	-	1		1				: 1								
1-1	6.2	31	7 1 7			**	16.65	3.32		7.5		167	7.76		22.0	-	25.0	7.5
Ξ.	7.3	ر د ر	1177			135.	10.05	3. 12	3	343		250	7.78		12			6.57
7	2 !	e (1103			10%	10.05	3.32	3.0	143	1.6	3	7.70		323	. C	343	6.56
11-16-7	F 7	* u	11/0			4	15.65	7.32	2.0	3.1		7 33	7.72	2.2	1 90	2.0	140	6.60
1	a a	2				1000	10.01	5.32	3 °	210	5.0	280	7.78	•	2	1.8	139	6.54
-1		7	11/7				15.50	3. 4.		54J	2.1	9	7.75		1 43	•	173	4
11-16-7		96	1174			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.01	3.35	• •	200	,	30	7.76		D .		1 10	
1-1	8.0		-4		25.31	100		3, 12	- N	110		123		, 0	16.0	. 10	263	
1-1	81	ď.	116.7			105.	16.65	3.42	8	320	4.2	240	7 7 7		•		3	6.53
	91	n i	5.1			1.5.5.	10.65	3.32	•	7.	5.4	24.1	7.72		1.93		0,0	
	10	6.	1163	102		105.	10.65	3.32	3.	5	7.9	5	7.75	3.4	130		210	
7	6	* .	117	171		1,5.	÷	3.32	2.	9	4.0	96	۲.		4		200	
1:	n a	0 4	1135			1.5.	•	3.39		23.	7.4	250	7.76	0.,	-	4.4	20	6.5
1 -	20 ~	70	11.0	/ 2 -		100.0	15.60	5 . 3 .	,	4	Ď. 3	20	7.76	۸. ه	130		1 3 0	6.5
	200	V 1.	111	601		2.01	10.65	5.32	2	280	•	120	7.72	3.3	0	5.6	30	6.5
1 1	9 6		11/0	101		1 L	10.05		,	220	5.5	253	7.72	•	350	1.2	310	F. 5
) K	ים מ	1181	17.5		. u	10.55	3.56	,	667		220	7.76	e (9.6	m .	
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									RIGHT PLA	ANE	LEFT PLAN	1 1 1 1 1 1 1 1	CENTED	RIGHT PLANE	LFFT PLANE	CENTER
		Code	PANJE	JRIFT	VE_3CITY	35 N	E Y	CKIN	PACAMIC.		OYNAMO DATANO		GRAVITY	BALBATC	DVNATIC	OF GREVITY
TESTED	L 01	CN.	(SQA)	(X)X)	(FT/SEC)			(KTS)	120-N	(DEG)	(IN-02)	_	(AL)	(TN-07) (DEG)	(TN-02) (DEG)	CAL
						1	-	1								
1-14-71	152	92	11453	149	9652	•	6.27	3.97	5.4	111	9.6	163	7.15			00.0-
1-18-71	153	4 6	11419	-		<u>,</u>	6.27	3.07	0.,	310	1.2	1 30	7.71	-3.3	0.7	-0.60
1-18-7	153	32	11377	-		2	6.27	3.17	3.2	300	3.6	400	7.75		0.6-	00.0
1/-61-1	153	en d	11373	→ ·		159.	6.27	3.17	1.0	253		543	۲.	-0.0	0.0-	00 - 1-
1-19-71	2 4	+ 6	11459	- '	252	7	6.27	7.37	2.8	250		354	7.73		•	12.73
7/=67-7	1.7	r	11000				ċ	3-97	5.6	33		20	۲.	0.7	•	-0-53
1-14-11	126		11325	- •		C)	•	3.37	3.2	4	9.2	93	7.78	-5.0	0.1-	00-0-
171011	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V ~	1141	Α,		E (1	6.27	5.34	1.9	6		402	7.76		0.0	-0.00
1-18-71	4	ים מ	11305			109.57	12.0	5.67	1.6	326	•		7.75	0.0	0-0	n :
1-18-71	1	35	11356	1		1 -	9 6		, ,	283		0 0	7.75	- c	n c	
1-13-71	155	6	11394	-	. ~	1	ď	3.37	1 4		, ,	2 1	7.73) i	5 6	1 (
1-18-71	155	35	11333		647	109.27	9	5.37	2.0	15.		2 .	7.76		,	100
1-19-11	155	3,5	11324	_	543	159.27	9	3.27	4.	110	5.0	1 40	7 7 5	0.0	3	1 1
1-18-71	1.53	t tr	11373	-	7	129.61	ò	3.37	4.5	24.3		273	7.75		-0.0	-0.00
1-19-71	155	in in	11436	-	5.5	12.611	6.27	3.17	2.6	7.0	4.2	159	7.74	-0-0	0.0	50.61
1-18-71	150	et (11.349	-	C)	17		3.71	5.5	260	0.,	210	7.76	0.,-		21.6-
17-13-17	150	26	21339	-		1:9.2	5	3.17	1.4	247	5.6	3.5	7.74	-9.0	-0-	CO - C-
1/-14-1	120		11319		5474	9 1	6.27	3.27	1.6	260	7 . 8	354	7.78	0.0-	-3.0	13.0-
1 - 1 9 - 1	0 1	3 0	11321		N 1	109.2	0.27	3.07	2.4	340	V .	270	7.78	0.0-	-3.0	
1 - 1 3 - 7 1	60.4	r 0	11355	н.		•	6.27	N. 7 . M	5.6	200	7.2	210	7.78	0.	0.0	n
1-18-7-1		100	25.44	٠,	ųr	,,,	0.61			230		662	7 - 7 3	7	E -	E
1-19-71	1 5 7	2 6	11777	-		15.5.21	6 27	3.17	9 :	: 22	n .	310	7.76	0.0	0.0	C
1-14-71	157	ď	11376	•	1 ~	10.0	9	75.5	1 2	7 10	7 -		7 . 7	5 6		3
1-14-71	151	35	11534		2		Ġ	3.37	3	13.0	1 1	67	7.76	1		
1-13-71	159	91	11257	-1	2	£3	5	3.17	1.6	3	9	2	7 7 8			
1-: 8-71	158	32	11311	-			9	3.37	4.2	100	3.5	197	7.76		13	13.00
1-18-71	159	60	11539	-			ů,	3.37	9.2	140		150	7.78	0.0-	-3.6	E
1-13-71	# 2 a	7 E	11357	-4	~		5.2	5.37	3.4	7.3		2+0	7.72	-9-3	-3.0	50.00
1-10-71	40.0	E I	11256	-1		10.4	0.27	3.37	0.0	273	3.2	36.	7.78	0.5-	٠ ن ن	30.0-
1-18-71		# (11341			•;	40.27	3.37	3.6	140	•	193	7.79	0.0	0.0	00.0-
111011	7 0	7 6	11637	٠,					* .	7 (3 5	7-72	0 -0 -	0.0	0 -
1-13-71	100	7	11.73	-		• •	4.0.7			1 1	, h		1 20) r	2 .	:) (r . c
1-10-7	159		11334	' -	2435	113.2	6.27	3.07		34.0	2 4	. 4	7.76			3 C
1-13-71	16	6	11364	•				3.27			1			9 6		3 6
1-19-71	9	ď	11355			1 +4	0	3.17	2.0	43.0	, ,9	600	7 . 7 6			3 (
1-1 4-71	150	9 3	11241	-1			5.27	, ^ (1 6 6	2.6	2 .		1 1	7.78			1
1-13-71	100	m	11755	••		-1	6.27	3.47	D. M	503		3.0	7.79] - [-
1-13-11	٠,	0	1153	7		•	12.9	5.27	.1	•	0.4	213	7.74	0.0	E .	
1-14-71	161	ī	11327	+		+4	6.21	3.37	2.5	303	61	25.8	7.75	-3.5	0.1	03.01
1-19-71	161	9,2	11249	-		100.27	12.9	3.37	5.3	210	.•	143	7.75	-3.0	e .	20.6-
1-19-71	151	m 6 (11275	_		2.4	5.67	3.17	0	543	. 0	1.80	7.73	0.0-	2.0-) r = 0 F
1-14-71	101	7 (11232		2436	1.9.27	2.57	10.7	۳. د ۱	7	7	?	7 . 7 4	-0-	ان ن	-0-03
1-13-71	101	35	11 325	p-4		0	6.27	16.5	9	100	7 - 7	33	7.75	0.0	0.0-	-3-00

						I		RIGHT PLANE		INERT LOADED	D N	CENTER	PIGHT PLANE	EMPTY LEFT PLANE	CENTER
PROJ SANJE JEJET VELDCITY DENSITY KIND	INITIAL GALLSTIC RANGE OF STATE INITIAL MALLISTIC RANGE UPLET VELOCITY DENSITY KIND	INITIAL GALLISTIC RANGE VELOCITY DENSITY KIND	GALLISTIC RANGE		OB.	CRUSS	DYMAMIC		DYNAWIC BALANCE	ָשָׁיִט שְּ	GRAVITY	MIC	DYNAMI	GRAVITY	
DS) (YDS) (FIZEC) (PERCENT) (KTS)	(YDS) (YDS) (FIZEC) (PERCENT) (KTS)	(YDS) (FIZEC) (PERCENT) (KIS)	(FT/FEC) (PERCFNT) (KIS)	(PERCENT) (KIS)		= ;	(KTS)	(IN-02)	()EG)	(IN-02) (Dec)	(050)	î.	(IN-0Z) (DEG)	(TN-02) (DEG)	2
62 B1 11415 161 2495 159.	11415 161 2495 153.27 6.	161 2495 159.27 6.	1 2495 159.27 6.	159.27 6.			3.87		170	3.2	140	7.76	0.0-	0.0-	0.0-
62 2496 109.27 0.	11238 162 2496 109.27 p.	162 2496 109.27 0.	24.96 109.27 0.	109.27 0.	17.0		1.97	5.6	150	9.2	220	7.76			-3.60
52 33 112+3 163 2479 124,27 6.	112+3 169 2479 109.27 6.	168 2479 187,27 6.	3 2479 127.27 6.	104.27 6.	12.9			2.0	160	2.8	250	7.74	•	D 6	-
52 54 11272 123 2435 53 55 4135; 157 2455	112/2 123 24/3 109.2/	12.9 24.95 109.27	2:05 109.27	109.27	6.27		7		2.50	9.0	150	7 7:	9 5	7 9	
63 91 11346 151 2497 109,27 7	11.346 151 2497 109.27	151 2497 109.27	2497 109-27	139.27	6.27		3.57		2 8 2	1.6	3 4 0	7-78	: a		0
63 92 11232 159 2482 109.27 5.	11232 159 2482 109.27 6.	159 2482 109.27 6.	2482 109.27 5.	109.27 5	5.27		3.07		270		220	7.78		0	90-0-
63 P. 11254 150 2+54 1.9.27 6.	1125u 150 2+34 1.9.27 6.	150 2+54 1.9.27 6.	2 2 34 1 19.27 6.	1.9.27 6.	10.9		3.07	1.5	25.0		2	7.72	0.0-	ė	-0.30
63 84 11348 161 2499 1f9.27 6.	11348 161 2499 109.27 6.	161 2499 109.27 6.	1 2499 119.27 6.	169.27 6.	6-27		1.07		170	•	210	7.72		0	00-0-
63 95 11250 16C 2484 139.27 6.	11250 166 2444 139.27 6.	16C 2484 139.27 6.	C 2444 109.27 6.	139.27 6.	6.27		3.17		90		27.3	7.72	٠	6.5	00.0-
64 BI 11271 156 2430 109.27 6	11271 156 2430 109.27 6.	156 2430 109.27 6.	5 2430 109.27 6.	109.27 6.	ţ,		3.07		160	e .	120	7.70	0.0	:	9.0
54 62 11547 155 2449 149.67 0.	11547 135 2449 149.67 0.	155 C+49 129.67 0.	2.64.9 Ind.c. 0.	1.9.6/	• •		> ° ° °	9 6	007		9 0	7 7	> C	9 6	
10 17:52 17:52 17:55 17:	12.521 12.42 15.1 15.25.1 15.1 15.1 15.1 15.1 15.1 15.1 15.1 15.1 15.1 15.1 15.1 15.1	12.601 Jane 561	20 12:621 16:52 1	17.601	22.0				20.0	•	3 4 2	7 76			
54 95 11340 155 7490 10312 6.	11343 155 7490 103.27 6.	155 7490 103-27 6.3	0 12.501 103.51 6	139.27	72.0		7		36.0	י ני י ני	3.6.0	7-78) i		
65 01 11278 154 2470 1:0:27 c	11278 154 2470 1:0:27	154 2470 1:0:27	2670 1.9.27	1.0.27	22			•	2	•	2 4 5	47.7			02-6-
65 R2 11235 151 2451 109.27	11235 151 2431 109-27 5.	151 2481 109-27 5.	1 2481 109-27 5.	109.27 5.	5.27		3.07	3	3 2	9.6	163	7.78	0		00-0-
65 83 11315 144 2493 1.9.27 6.	11315 144 2493 1,9.27 6.	144 2493 1,9.27 6.	. 2493 139.27 6.	1.9.27 6.	9		0	7.4	30		33	7.76	-0.0	-0.0-	-0.00
65 84 11418 155 2442 109.27	11418 155 2432 109.27	155 2442 109.27	5 2442 159.27	169.27			3.07		260	1.4	100	7.78	0.0	2.0-	00.00
65 R5 11246 155 2476 139.27 5.27	11246 155 2476 139.27 5.27	155 2:76 139.27 5.27	55 2476 139.27 5.27	129.27 5.27	5.27		3.07	9	20	1.2	9	7.76	0.0	٠.	22.0-
66 31 11835 -19, 2508 132.69 23.87	11895 -19, 2506 132.68 20.87	-19, 2506 132.49 23.87	92 2506 132.49 23.87	132.58 23.83	20.87		m :	•	6	9.6	9	7.76	0.0		-3.60
56 92 11949 -18 Z506 10Z.65 ZU.89	11949 -18 2506 102-65 20-89	-18 2506 102.65 20.89	55.06 102.65 20.89	102.65 20.89	23.63		34.15	1.8	240	•	290	7.72	D	9. P	00.0
56 B3 11939 -176 7536 162-68 23.89	11939 -170 7536 1u2.66 23.89	-170 7536 1u2.68 21.89	75.16 1.2.68 21.89	1,2 68 23.89			- 18.16	, w	213	v u	0.4	7.74	D 6	D 0	
00 00 07 000 1130 001 10 00 00 00 00 00 00 00 00 00 00 0	CO 00 07 CUP 1100 201 COUT	CU1/2 LC 277 1 1 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CO 00 00 00 00 00 00 00 00 00 00 00 00 00	CU-12 LL - 221			20.00	9	200	•	200				
80 - 201	50-201 FLS C11 Stust	50-201 PL-2 C11	20 - 20 T	00.001	20.00		79.82	• •	200		355	7 7	9 6		
60.12 L0.21 10.22 LT. 2002 LC 72	60:12 t0:21	EX. 10 = 3.0 1	EX 10 89 6 1 2007 11	EA. CC - A. C -			128.10	•	445		243	7 . 75			
67 43 41432 -174 2515 192-69 20.89	11432 -174 2515 102.68 20.43	-174 2515 112.68 20.89	74 2515 102.68 20.03	102.63 20.03			-34.16		100		175	7.75	0.0		
o7 9+ 119.5 -199 2519 102.68 24.89	119.5 -199 2519 162.68 24.89	-199 2519 162.68 24.89	99 2519 162.68 24.89	162.68 24.89			-39.16	2.8	23		2	7.72	-0-	-3.0	00-0-
o7 95 12629 -183 2500 102.68 22.43	12029 -163 2500 102.68 22.43	-183 2500 102.68 23.43	83 2500 102.68 22.43	102.69 22.43	64.52		-38.16	1.0	320	9.	546	7.78	-9.0		30-3-
65 B1 11922 -174 2492 102.63 2u.89	11922 -174 2492 102.63 20.89	-174 2492 162.63 20.99	74 2492 162.63 20.99	162.63 20.89	20.89				360		125	7.76	-0-0		-9.00
68 92 11939 -176 250c 102.69 2u.89	11939 -176 250, 102.69 24.89	-176 250, 102.69 24.89	76 250: 102.69 2u.89	102.69 24.89	50.00		33.16	7.6	180	m ·	335	7.74	0.0		00.00
58 33 12047 -143 2-06 122-68 74-83	12047 -143 2-06 102-68 7-63	-143 246 102-68 74-83	73 2746 122-68 74-83	127-68 7-83	60.00		າ ເ	3.6	190	•	5.0	B		D .	9.00
58 94 11944 -174 2437 102-69 21-89	11944 -174 2437 102.69 21.89	-1/4 245/ 102-69 21-89	74 Z437 10Z+64 ZJ-89	102-64 21-89	69.67		48.16	ù : ⊷ (230	*	170	1.16	3 0	9 6	
09 11.01.0 =101	11010 -101	1	51 C2.14 107.03 C1.04 T1	100 EC ES C .	F 00 10		01.0		35.0		611	4.0) C	
C 60 12 C 17 C 17 C 17 C 17 C 17 C 17 C 17 C	Tends for the tends of the tends	C CONTRACT TOTAL COTA	C	5 65 5 5 5 5						•	,			•	
5- 68 - 119-4 - 1/2 2,42 1,2 b3 - 48 - 5	11994 -1/2 2532 122.63 24.69 -3	-1/2 25-12 122-63 24-69 -3	72 255.2 1u2.b3 2u.89 +3	126.63 24.89 =3	5 - 69 - 7	•	6.16	9 1	150		100	9 1			
63 93 11877 -177 7491 102-55 23-89 -3	11877 -177 2491 102-65 23-89 -3	-177 7491 102.65 24.89 -3	77 2491 102.65 24.89 -3	162.65 24.89 -3	0 - 6K - 1	?	0		260	•	י ע	7.7	3 .	0.0	
5y 84 11973 -171 c+96 162.69 23.84 -7	11073 -171 2496 162.69 23.83 -7	-171 2+96 162-69 23-84 -7	71 2-96 162-69 23.83 -7	162.69 23.83	3.83 -7	î	3.16	٠	283	4.2	100	7.75		0.0-	-0
69 95 11891 -134 25w4 107.69 2w.89 -3	11891 -144 25u4 107.69 20.89 -3	-134 25u4 107.69 7u.83 -3	34 25u4 107.69 2u.89 -3	107-69 74-83 -3		ĩ	9.16		19"	4.6	110	7.7	-0-	-0.0	30.0-
70 31 11973 -159 2566 162.64 23.43 -3	11973 -169 2566 162.64 23.43 -3	-169 25t6 1f2.fd 23.43 -3	59 2566 162.64 27.43 -3	162.64 27.43 -3	3.23 -3	ĩ	9.16	0.,	149	, O .	19.	7.78	-9-0	0.0-	-0.00
70 92 11952 -175 2572 152.68 24.49 +7	11951 -176 25-2 102.68 20.49 -1	-175 25-2 132.68 23.49 -1	75 25-2 132.68 23.49 -1	132.68 20.49 -7	1 - 6 a	*	3.16	•	223	4.0	1.93	7.72	0.0-	-0.0	36.0-
73 83 11752 -131 2+60 102-60 20-89 -3	11752 -13: 2+60 122-60 20-89 -3	-13: 2+60 102-60 20.89 -3	3: 2+60 122-60 20.89 -3	112-60 20-89 -3	.83 -3	7	3.16		26.3	6.4	10	7.76	0.0-	-0.0	-0.00
70 84 11875 -173 2497 102.69 23.93 -3	11875 -173 2497 102.69 23.83 -3	-173 2497 102.69 23.83 -3	73 2497 102.69 23.83 -3	102.69 23.83 -3	93 -3	1.3	9.1	5.6	130	6. 3	150	7.74		-0.0	-6.30
70 85 1191, -165 2493 102.63 2	11934 -165 2482 102.65 23.83	-165 2432 102.6a 2J.As	55 2443 102.6a 23.84	102.60 20.89	£ .	1	39.1	3.5	1.83	9.0	250	7.75	-0-0	-3.0	06.5-
71 31 11698 -175 2485 10	11698 -170 2480 102.68 20.	-175 2483 102.68 29.	2483 1u2.68 20.	1.2.68 29.		•	33.16	۲.5	299	5.6	200	7.75	-0.0	-0.0	-0.00

CENTER CF GP AV IT V	(NI)			.	9		٠	9.0		2000			,,,,,,,,,																																		
LEFT PLANE DVNAWIC B9LANCE	(11N-02) (DEC)		0.0-						003	0000	00000	,																																			
PUL PNE PNCE PNCE	(520)			9.0	0.0.		0.0	9.0	3000	3080	3000	3 5 5 5 5 5		3 5 5 5 5 5 7 5 5 5 5 5 5 5 5 5 5 5 5 5		30500000000000000000000000000000000000	3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		3 5 5 6 6 7 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6	**************************************													20000200000000000000000000000000000000														20000000000000000000000000000000000000
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	RIGHT PLAN	(IN-0Z)		4.4	9.		٠.٠	•		5.4	•	3			e e	E (0 0	, ,							4.0	2.6		•									5.4		1.2	0.4	3.0		4	2.0		6.1 4.	2.4
	C 2055	WIND (KTS)		-6.45	-6.05	-6.35		-10.90	-10.10	-15.30	-10.03	0	0	η.				, ,		10.7	7		-10.00		-10.00	-13.03	-19.30	-13.36	-14.00	-130	-10.37	10.0	36	130.00	-100	-13.50	-14.00	-13.00	0.3	- 10.33	3	-11.	-13.10			-10.01	-19
	RANGE	(KTS)		11.39	11.39	11.33	54.94	24.93	;	;	54.94	54.98	54.09	o (66.42	56.43	26.93	27. 08	Ö	24.99	66.47	96.46	24.93	,	24.99	54.94	56.46	54.98	54.93	54.93	54.94	•	10000	; ;	;	24.93	;	54.99	54.34	16.47	54.94	54.33	54.99		•	٠	54.94
	BALLISTIC	JE.SITY (PFRCENT)		2 . 1	112.11	115.11	107.98	167.99	107.94	-	-		137.95	~	107.99	107.93	107 04	1.7	0	197.99	0	107.98	7.9	07.9	107.98			-	67.9		= .	-	10/13	6.70	107.33	107.93	1.7.93	127.33	107.98	137.94	107.98	107,93	157.93	127.94	1.7.33	127.93	137.93
	r I 34	ELOCITY FT/SfC)		2510	7642	8647	2511	65.7	35.6	2503	25.4	2516	9:52	2507	50.5	255	77.7	7 7 7 7	25.70	2523	2537	6552	2511	2526	2556	2513	2563	2498	5228	2553	2527	2528	25.35	2536	2528	2534	2::21	2576	25 34	25.27	2521	2252	2529	25.35	252E	2517	2523
		CKIFT (YDS)		63	S.	7.	113	119	116	15.	7 1	101	113	1	3 6 0 1	C C	0	19.0	2 -	103	1.5	4	3	96	91	3 6	91	86	20	60 i	7.5	2 (0	7.5	3	.† 60	99	4	6	e.	4,2	95	92	Ť	_ 0 T	er i	20
		CYDS)		~	12	1	•	+	ഴ	4	٥,	1	r	Α:		9 .	1 L		15	S	9	10	9	11633	17	15	6	12	~	a,	9 :	ΩL	1 .	ľ	16		.5	4	1.5	16	u i	3	.S	S.	٠,	1,1	
		NO N		m	•	· 2	91	~	~	•	32		٠, ٠	·	.	١.	٠,	, ~		ın	-	95	8	1	α	81	92	~	+	ο.	(N f	n .		-4	N	12		0	-	٧.	•	+	5	31	95	× 10
		107	ļ	1.86	197	1 30	1 91	187	181	181	191	781	1 32	76.1	791	701	9 10			1.83	184	1.84	1.84	1 84	164	1.95	1.85	1.85	1 85	1 30	1 95	001	98 +	1 00	1.97	1.97	187	1.87	197	138	1 94	en en	*	1 43	1 99	133	1 46
	;	TESTED		2-01-71	21-71	2-11-7	2-63-2	2-6 3-2	2-0-2-	2-19-71	17-62	3-60-21	11-69-2	1/-67-2	11-67	7 - 0 - 2	2-10-71	2-00-2	2-09-71	2-0 9-71	29-71	2-: 9-71	2-03-71	2-, 3-71	72-60-2	2-09-11	2-19-71	17-61-5	2-, 3-71	T2-6:-2	1/-62	2 - 6 9 - 7	1/-60-2	2-09-71	2-69-2	2-, 9-71	2-63-2	2-2 9-71	2-03-2	72-62	2-19-71	2-0 3-11	2-16-2	2-29-71	2-39-71	2-79-71	2-08-11

										INERI	INERT LOADEN			EMPTY	
					LAITIAL				RICHT PLANE		LEFT PLANF DYJAMTC	CENTER	RIGHT PLANE	LEFT PLANE	CENTER
DATE		0044	RANGE		VELOC		3	SI	lul I	ľ	PALANCE	3		·	GOAVITY
100			102	202		(IN 30% 4n)	(415)	(KTS)	(IN-72) (D=6)	: I	530) (ZO-N	2 !	(IN-02) (D-6)	(TN-02) (DEG)	CIN
2 9-71	189	9	11547		25.28	. 20.		•							
2-13-71	1 49	60	11516							25.5	2.6		3 C		
2 9-71	0	8	116:7		2.07		, ,			9 0			•		00.0
2-0 9-71		6	1154				J	•		.		7.10	•	9 (
2-0-0-71	1	9 6	245			167	v	7	3 C		31			0.0	-3.00
2-09-71	0 7	2 4	7121		9.0			7		170		` '	ç.	0	-0-10
2 9-71		1 0	1157		0400		יע	1 1		9 0		٠,		D :	
7-24-71	0	3	7.75		4 6		-	7	•	2		134 7.75		٠. د د	20.0-
2-21-74	10	7 0	* C	7 .		3		2		9	۰			0-	0
11-67-7	16.7	7.	111111		V (707	17.69	•		1.0		^	3.6-	0-0-	000-
1/-5-2	16.1	ה ה ה	11954		~ *	10		2 (2.0	170	•	160 7.75		0.0	0.00
77-57-2	1 .	r c	1000		u 1	,		N 1		240	V.	7.7		0.1	00.3-
1 - 2 - 2	16.7	60	10071		v			2-		0				-0.0	-0.to
1/-4/2-2	761	er (1.845	301	~	1.4.49		?		200	2.0 2	230 7.71	0.0-	0.01	-3.60
2-54-71	192	35	11813	163	~		17.69	5.	4.0	30		7		0.0-	-0.00
122-2	1 92	93	11709	95	£≈52	104.		12		30	•			E - 0 -	-0.03
2-24-11	1 92	•	11755	135		100	7	1		60		350 7.74		0.0-	-0.00
1/-47-7	26.1	<u>ر</u>	11712	1 ر	••	100	17. h	ì		20		10 7.76		-0-	-0.60
11-42-2	1 93	-	11992	106	7507			•	1.9	20				0.3-	-3.00
2-24-71		95	11.558	129			-	ï		121		7.8	0.0-	0.5-	00.61
112-2	1 53	a, ,	11006	7	۸ ۱	5 ° 4 ° 7 ° 7 ° 7 ° 7 ° 7 ° 7 ° 7 ° 7 ° 7		2		7.3				0.0-	-0.00
1/-42-7	7 7 7	7 0	11/06	113	~	•	-	•		63				0.0-	07.0-
1/-47-7	7	7	11.802	4	~	1.4.40	17.69	١		3				-0.0	-0.00
2-571	1 34	H.	117,19		2	•	-	-5-		2				-0.0	-0.00
2-24-71	1.94	35	11812		•	1.4.	•		2.0 3	310	5.2	319 7.72		-0.0	00.0-
2-24-71	1.34	3	42343		1452	10	-	-		6.9		7.7		0.,-	-0.00
2-54-71	36.4	7	11/32		2	* - - - -	17.6	٠		173				0.0-	00.0-
2-271	6	35			•••	104.	-	1		7.9				0.3-	00.0-
11-42-2	1 95	31	11671		2554	40.	17.63	?		53	۰	45 7.78	7.01	0.0-	00.9-
1/2-2	1 95	2 2	11879		•••	2	-	2	3.6	5.0		_		0.6-	-000
1/	1 95	83	11777		524	40 t	••	2		293				0.0-	-9.60
2-271	1 95	7 (11794		~	104.	17.63	7		1 40		240 7.75	0.3-	٠٠٠	-0.00
1/-72-2	1 35	45	11927	1.5	2	* 1	-	-2		30	3			0.0-	00.0-
2-24-71	1 96	E	11704	101	2	104	17.63	-2		120	و	7.5		0.61	-0.00
112-2	1 96	11	117+0	7 7 7	2	104	_	?		0		7.3		0.0-	-0.00
2-571	1 90	33	11757	1.5	5952	124.	17.53			340	۰	360 7.41	-0-	-3.9	0.0-
2-54-71	1 30	ď	11559	fσ	7	••	-	?		110		7.7	2	0.0-	-3.00
2-271	196	35	117 55	11/	~	**	_	-2	6.0	33	9			0.0-	Gr. 0-
1/2-2	137	F.	11739	103	2246	-	-	1	1.8	33		7.7		-0.0	00-0-
2-24-71	161	ru T	11729	124	ry .	•	-	-2.11		20		7.	-0-3	5.7-	-9.00
2-271	197	93	11917	111	7		**	-2.31		100		^	-0.0	9.5-	-3.60
2-271	197	9	11756	97	2541	134.33	17.63	-2.51	3.4	63	2.8.2	^	-3.0	-0-	00.0-
2-571	161	30	11691	123	r.		-4	-2.31	c	.a	٥	^	0.0-	0.0-	-3.00

APPENDIX B

Projectile Inspection Data

GUN PROJECTILE INSPECTION DATA

5/38 MK 44-0 LCT 62 PROJECTILE B1

INSPECTION DATE 09/29/70

	(INSI	DE	1	(0015	IDE)
71	X-ACT	Y-ACT	TIP	DIA	X-ACT	Y-ACT	TIR	CTA
1.90	0.0121	0.0257	0.02207	2.971	-0.0002	0.0001	0.00022	4.984
2.90	C.CICI	C.C192	C.07169	3.383	-0.0C39	-0.0047	0.00611	5.122
3.50	0.0077	0.0209	0.02227	3.501	-0.0034	-0.0030	0.00453	5.120
4.90	C.0057	C.0215	C • C2 22 4	3.614	-0.0009	-0.0	0.00090	4.982
5.90	C.CC72	C. C158	C. C2107	3.732	0.0020	0.0006	0.00300	4.950
6.90	0.0090	0.0200	0.02153	3.846	-0.0012	-0.0011	0.00163	4.957
7.90	C. CC ac	C.02Cl	0.02193	3.929	-0.0009	-0.0011	0.00142	4.959
8 . 40	0.0078	C.0181	0.01971	3.926	-0.0012	-0.0005	0.00130	4.960
9,50	0.0090	0.0164	0.01825	3.925	-0.0008	-0.0003	0.00095	4.962
	(INSI	ne)	(DUTS	IDE)
7.3	X-ACT	Y-1(T	TIR	010	X- AC T	Y-AC T	118	CIA
5.75	C.0109	C.C143	0.01798	3.919	0.0014	0.0013	0.00191	4.984
4.75	0.0122		0.01732	3. 845	0.0009	0.0006	0.001CP	4.880
3.75	C.0104	0.0069	0.C1249	3.1.	0.0022	0.0006	0.00.58	4.704
3. 25	0.0030	0.0034	0.00865	3.5:	0.0013	0.0017	0.00214	4.580
2.75	C • CC76		0.00760	3.434	0.0015	0.0010	0.00180	4.439
5.37	O.CCPO	C.COC1	C. COROC	3.25€	0.0019	0.0014	0.00228	4.274
1.75		-0.0034	C.CO672	2.878	0.0026	0.0011	0.00292	4.092
1.25	0.0147	0.0130	0.01962	2.581	0.0028	0.0006	0.00286	3 * b 30
13	X - A C T	Y-ACT	TIP					
1.CO		0.0054	C.C054C					
7.00	0.0025	C.CO47	C. CO E 3 3					

BASE THICKNESS (IN) 1.536

PROJECTILE LENGTH (IN) 16.588

ZI IS DISTANCE FROM BASE (IN)

72 IS PISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LCT 62 PROJECTILE P2

INSPECTION DATE 9/29/70

	(INS.	Inë	1	(0015	IDE	1
71	X-4CT	Y-ACT	TIR	DTA	X-ACT	Y-ACT	TIR	CIV
1.90	0.0145	0.0045	0.01.843	3.112		-0.0011	0.00211	4.997
2.50	0. C194	0.0029	0.01952	3.357			0.00041	5.123
3.90	C.0206	0.0054	0.02264	3.494	0.0027	-0.0001	0.00270	5.124
4.90	0.0196	0.0094	0.02174		-0.0014		0.00140	4.983
5.90	0.0202	C.0123	0.02165	3.717	0.0001	0.0002	0.00022	4.940
6.50	C.0209	0.0115	0.02385	3.834	0.0006	-0.0001	0.00061	4.450
7.90	0.0201	0.0135	0.02427	3.920	-0.0005	0.0	0.00050	4.957
2.90	0.0175	C.C145	0.02273	3.921	-0.0021	0.0006	0.00218	4.754
9.90	0.0171	C. 0141	0.02210	3.920	-0.0014	0.0007	0.00157	4.GEE
	(INS	IGE)	(0015	108)
12	X-1CT	Y-10T	115	DIA	X- AC T	Y-ACT	T[O	CIA
5.75	C.Clos	0.0139	0.02:95	3.920	-0.0011	0.0004	0.00117	4.983
4.75	0.0151	C.C129	0.01686	3. 688	-0.0C1C	0.0012	0.00156	4.433
3.75	0.0069	0.0123	C. C141C	3.724	-0.0023	0.0013	0.00254	4.713
3.25	0.0031	0.0134	0.01 775	3.620	-0.0C22	0.0013	0.00304	4.5 10
2.75	0.0010	0.0119	0.01194	3.489	-0.0031	0.0019	0.00558	4.440
2.25	-0.0012	0.0004	0.00940	3.303	-0.0026	0.0015	0.00300	4 . 2 Pr.
	-C.CC71	C.CC75	C. C1C+:		-0.0031	0.0018	0.00750	4.101
	-C.CO72	0.0075	C. C1C40		-0.002P	0.0022	0.00355	3.401
					3 4 4 5 .			
73	X-ACT	Y-ACT	71F					
	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	, ,					
1.00	-0.0012	-0-0017	0.00708					
			.0.02350					
	0.0113	0.0700	0.012.510					

BASE THICKNESS (IN) 1.435

PROJECTILE LENGTH (IN) 16.493

ZI IS DISTANCE FROM BASE (IN)

72 IS FISTANCE FREM NOSE (IN)

GUN PREJECTILE INSPECTION DATA

5/28 MK 56-0 LCT 62 PROJECTILE 83

INSPECTION DATE 09/28/70

	(INST	DE)	(OUTS	106)
Z 1	X-ACT	Y-ACT	TIP	DTA	X-ACT	Y-AC T	TIR	CIA
1.90	-0.0344	0.0164	0.03811	3.COF	-0.00C2	-0.0019	0.00151	4.994
	-0.0239	0.0073	0.02499	3.374	0.0010	-0.0	0.00100	5.119
3.90	-0.0292	C.01C3	0.03002	3.480	0.0012	-0.0004	0.00125	5.123
4.90	-0.027F	C.C117	0.C2989	3.606	-0.0012	0.0004	0.00126	4.983
5.c0	-0.0253	C.0120	0.02854		0.0006	0.0018	0.00190	4.965
4.50	-0.0225	0.0124	0.02569	3.839		0.0014	0.00172	4.963
7.50	-0.0100	C.0122	0.02258	3.925	-0.0CC4	0.0011	0.00117	4.961
9.90	-0.0145	C.0122	0.01895	3.927	0.0003	0.001C	0.00104	4.963
9.90	-0.0132	0.0126	0.01825	3.929	-0.0C12	0.0008	0.00144	4.964
	(INSI	DF)	(DUTS	IDE	1
12	X-VCT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
5.75	-C.0008E	C.0140	0.0163A	3.533	-0.0C19	0.0005	0.00156	4.997
4.75	-C.0012	0.0158	0.01585	3.886	-0.0004	0.0005	0.00064	4.890
3.75	C.0017	0.0165	0.01(55	3.709	-0.0C12	0.0013	0.00177	4.702
3.25	0.0045	0.0149	0.01556	3.596	-0.0017	0.0005	0.00177	4.570
2.75	0.0095	C.C150	C.C1724	3.454	-0.0017	0.0010	0.00197	4.437
2.25	0.0123	0.0150	C.C1940	3.219	-C.0C09	0.0015	0.00175	4.272
1.75	0.0220	C.CIFR	0.02768	2.973	-0.0C15	0.0011	0.00136	4.089
1.25	-0.0037	0.0113	0.01237	2.590	-0.0016	0.0007	0.00175	3.996
73	$X - a \in T$	Y-ACT	TIR	,				
1.00	C.(019	0.0059	C.00617					
7. CU	0.0014	0.0039	C.CO414					

BASE THICKNESS (IN) 1.491

PROJECTILE LENGTH (IN) 16.592

ZI IS DISTANCE FROM BASE (IN)

72 IS CISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/38 MK 46-0 LCT 62 PROJECTILE R4

INSPECTION PATE 9/29/76

	(INS!	ne)	(OUTS	105)
Z 1	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-AC T	TIP	CIA
- •	-0.0220	0.0144	0.02629		-C.OCC4	0.0005	0.00064	4.980
2.50	-0.C192	0.0090	C.C2C3C	3.361	-0.0001	0.0016	0.00160	5.121
3.90	-0.Clco	C.01CR	0.02254	3.479	0.0	0.0022	0.00220	5.110
4.50	-0.0204	C.0115	0.02747	3.596	-0.0021	0.0012	0.00242	4.937
5.90	-0.0192	C.01C3	0.02179	3.712	-0.0008	0.0001	0.00091	4.955
5.90	-0.0189	0.0091	C. 02 C 9 P	3.829	-0.0CC1	0.0011	0.00110	4.955
7.90	-0.0189	C.CO72	C.02013	3.914	-0.0C1C	0.0013	0.00164	4.956
9.50	-0.0200	C.0070	C.02114	7.918	-0.0016	0.0018	0.00241	4.95P
9.90	-0.0229	0.0060	0.02367	3.921	-0.0023	0.0015	0.00275	4,950
	(INSI	nr)	(OUTS	IDE	1
12	X-ACT	Y-ACT	TTR	014	X- AC, T	Y- AC T	T [P	111
	-0.0227	0.0063	0.05324		-0.0006	0.0022	0.00238	4.302
4.75	-C.0158	G. CO74	0.02114	3.642	-0.0011	0.0027	0.0025?	4.495
3.75	-0.0150	0.0055	C. C1599	3.705	-0.0026	0.0030	0.00397	4.697
3.25	-0.C140	C.C039	0.0145?	3.586	-0.0C17	0.0030	0.00345	4.57H
2.75	-C.C147	C. CO53	C. 015/2	3.453	-0.0C17	0.0035	0.00389	4.437
2.25	-C.C130	0.0066	0.01456	3.254	-0.0C18	0.003ª	0.00420	4.275
1.75	-C.0128	0.0032	0.01319	2.894	-0.0019	0.003C	0.00355	4.095
1.25	-C.CO10	0.0018	0.00204	2.597	-0.0013	0.0035	0.00373	3.992
73	X - 4 C T	Y - 4CT	TIP					
1.CO	-C.CC71	-C.C031	C.CO775					
7.CO	-0.0036	-C.00F0	C.CC€16					

PASE THICKNESS (IN) 1.494

PREJECTILE LENGTH (IN) 16.53

71 IS CISTANCE FROM EASE (IN)

22 IS CISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/38 MK 65-0 LCT 62 PROJECTILE 85

INSPECTION DATE 9/28/70

(INS	INE)	(0019	IDE)
				X-ACT	Y-ACT	TIP	117
C.01f4	-C. CO46	0.01703					4.979
0.0073	-C.CC41	0.00837	3.365	0.0016	0.0028		5.174
0.0093	-0.0065	0.01135	3.483	0.0010	0.0021	- •	5.119
0.0079	-0.0065	C.C1023	3.603	-0.0C1P	-0.0008		4.081
0.0093	-0.C060	0.01107	3.716	-0.0001	-0.001 C	-	4.959
0.0077	-C.0033	0.00838	3.837	0.C010	-0.0014	0.00172	4.956
0.0022	-0.0021	0.00304	3.920	0.0	-0.0011	0.00110	4.055
0.0017	-0.C019	0.00255	3.924	-0.0014	0.0	0.00140	4.954
0.0014	-C.00Cl	0.C0140	3.927	-0.0021	-0.0003	0.00212	4.955
(INST	(i) F	1	(OUTS	IDE)
X-ACT	Y-ACT	TIP	DIA	X-ACT	Y-AC T	TIP	C14
							4.082
-C.0017	0.0003	0.00188	7.8P7	-C.0C06	0.0001	0.00061	4.834
-0.0024	-0.CO71	0.00756	3.688	-0.0020	0.0004	0.00204	4.699
-C.0023	-C.C125	0.01281	3.564	-0.0026	0.0	0.00260	4.575
-C.00C8	-0.0145	0.01452	3.434	-0.0033	0.0006	0.00335	4.438
0.0036	-C.C154	0.01582	3.253	-0.0C29	0.0009	0.00304	4.274
0.0054	-C.0149	0.01575	2.519	-0.0033	0.0015	0.00362	4.104
0.0064	-0.0125	0.01404	2.606	-0.0021	0.0013	0.00247	3.904
X-ACT	Y-4CT	TIR					
0.0016	0.0061	0.00631					
0.0044	-C. CUac	0.00593					
	X-ACT C.0164 O.0073 O.0093 O.0075 O.0093 O.0077 C.0022 O.0017 C.0014 (X-ACT -C.0010 -C.0017 -C.0023 -C.0008 O.0036 O.0054 C.0064 X-ACT G.0016	X-ACT Y-ACT C.0164 -C.0046 0.0073 -C.0041 0.0093 -0.0065 0.0079 -0.0065 0.0093 -0.0060 0.0077 -C.0032 C.0022 -0.0021 0.0017 -0.0019 0.0014 -C.0001 (INST X-ACT Y-ACT -C.0010 C.0025 -C.0017 C.0003 -C.0024 -C.0071 -C.0023 -C.0126 -C.0068 -0.0145 0.0036 -C.0154 0.0054 -C.0148	X-ACT Y-ACT TIR C.0164 -C.0046 0.01703 0.0073 -C.0041 0.00837 0.0093 -0.0065 0.01135 0.0079 -0.0065 0.0123 0.0093 -0.0060 0.01107 0.0077 -C.0032 0.00838 C.0022 -0.0021 0.00304 0.0017 -0.0019 0.00255 0.0014 -C.0001 0.00140 (INSIDE Y-ACT TIR -C.0010	C.0164 -C.0046	X-ACT	X-ACT Y-ACT TIR DIA X-ACT Y-ACT 0.0164 -0.0046 0.01703 3.020 -0.0002 -0.0012 0.0073 -0.0041 0.00837 3.365 0.0016 0.0028 0.0093 -0.0065 0.01135 3.483 0.0010 0.0021 0.0079 -0.0065 0.01023 2.603 -0.0018 -0.0008 0.0093 -0.0060 0.01107 3.718 -0.0001 -0.0010 0.0077 -0.0022 0.00838 3.837 0.0010 -0.0014 0.0022 -0.0021 0.00304 3.920 0.0 -0.0014 0.0017 -0.0019 0.00255 3.924 -0.0014 0.0 0.0014 -0.0001 0.00140 3.927 -0.0021 -0.0003 (INSIDE) (OUTS X-ACT Y-ACT TIR DIA X-ACT Y-ACT -0.0010 0.0025 0.00269 3.827 -0.0019 -0.0001 -0.0026 -0.0071 0.00756 3.688 -0.0020 0.0004 -0.0023 -0.0126 0.01281 3.564 -0.0026 0.0 -0.0026 -0.0145 0.01452 3.434 -0.0033 0.0006 0.0036 -0.0145 0.01452 3.434 -0.0033 0.0006 0.0036 -0.0149 0.01575 2.519 -0.0033 0.0015 0.0054 -0.0149 0.01575 2.519 -0.0033 0.0015 0.0064 -0.0125 0.01404 2.606 -0.0021 0.0013	X-ACT Y-ACT TIR DIA X-ACT Y-ACT TIP

BASE THICKNESS (IN) 1.457

PROJECTILE LEMOTH (IN) 16.521

71 IS DISTANCE FROM PASE (IN)

22 IS DISTANCE FROM NOSE (IN)

THE INSPECTION DATA

5/38 MK 66-0 LCT 63 PROJECTILE B1

INSPECTION DATE 9/16/70

	(INSI	DF	1	(OUTS	TOE)
71	X-ACT	Y-ACT	TIP	DIA	X-ACT		TIR	CIA
1.90	0.0090	0.0053	C.01044	2.928	0.0005	-0.0002	0.00054	4.981
2.90	0.0154	C.00C8	0.01542	3.362	-0.0035	-0.0001	0.00350	5.126
3.50	0.0149	-0.0013	0.01496	3.479	-0.0035	0.0009	0.10361	5.126
4.50	0.0138	-0.0016	0.01389	3.596	-0.0C17	0.0	0.00170	4.984
5.50	0.0116	-C.0053	C.01275	3.712	-0.0007	0.0009	0.00106	4.959
5.90	0.0138	-0.0066	0.01530	3.828	-0.0025	-0.0009	0.00265	4.958
7.90	C. CC87	-C.CO81	0.01199	3.917	-0.0C15	0.0003	0.00153	4.959
8.90	C.0106	-0.0110	0.01528	3.922	-0.0015	0.0003	0.00153	4.955
4.90	0.0127	-0.0146	0.01935	3.932	-0.0023	-0.0009	0.00247	4.964
	(INSI	DE)	(nuts	IDE	1
Z 2	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	CIA
5.75		-C.C189	0.02380		-0.0009	0.0003	0.00095	4.982
4.75	0.0123	-C.0185	C.02278	3.897	-0.0006	-0.0007	0.00092	4.890
3.75	C. C1C4	-0.0020	C.01C59	3.712	-0.002C	0.0002	0.00201	4.703
3.25	0.0091	-C.00C2	0.00910		-0.0013		0.00132	4.582
2.75	0.049	C. 0048	0.00686	3.469	-0.0011	0.0004	0.00117	4.440
2.25	0.0016	0.0073	C. 00747	3.303	-0.0C12	0.0008	0.00144	4.277
1.75	C.CCCR	0.0142	0.01422	2.99C	-0.0010	0.0001	0.00100	4.096
1.25	C. 0007	0.0128	0.01287	2.646	0.0012	-0.0001	0.00120	3.894
73	X - VCL	Y-ACT	TIP					
	-C.0045	0.0024	C.00510					
7. CO	-0.0043	0.001A	0.00466					

RASE THICKNESS (IN) 1.562

PROJECTILE LENGTH (IN) 16.653

- ZI IS CISTANCE FROM BASE (IN)
- 22 IS DISTANCE FROM NOSE (IN)
- Z3 IS DISTANCE FROM NOSE (IN) FOR THREAD TIR

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LCT 63 PROJECTILE B2

INSPECTION DATE 09/23/70

71 1.90 2.90 3.90 4.90 5.90	0.0009 0.0009 0.0007	-C.CO62 -C.CO67 -C.CO82	TIR 0.00849 C.00872 C.00825 C.01092	3.002 3.367 3.485 2.603	0.0C13 C.0C08	-0.0C12 0.0004 0.0008	0.00139 0.00136 0.00136 0.00113	4.981 5.123 5.121 4.982
5.50	0.0020	-C.C115	0.01154 0.01296	3.714 3.832	-0.0002 0.0008	0.0007 0.0013	0.00073 0.00153	4.952
7.90 8.90 9.90	0.0016	-C.0130 -0.0145 -C.0162	0.01332 C.01459 O.01638	3.915 3.919 3.922	0.0003 0.0007 0.0002	0.0018 0.0016 0.0014	0.00182 0.00175 0.00141	4.051 4.051 4.051
12	(X-ACT		DE TIR) DIA	(X-ACT	OUTS Y-4CT) CIA
5.75 4.75 3.75 3.25 2.75 2.25 1.75 1.25	C.0074 0.0044 C.0022 0.0001 -0.0004 C.0004 0.0013	-0.0158 -0.0130 -0.0055 -0.0105 -0.0112 -0.0050 -0.0164 -0.0142	C.C1627 O.C1344 C.O1C47 C.C1073 C.O112C O.COSO1 C.O1640 O.O1426	3.471 3.271	0.0014 0.0005 0.0004 -0.0006 0.0008 0.0004 -0.0003 0.0005	0.0006 0.0014 0.0016 0.0016 0.0014 0.0009 0.0011 0.0021	0.00152 0.00165 0.00165 0.00171 0.00161 0.00098 0.00114 0.00216	4.992 4.834 4.699 4.580 4.437 4.277 4.096 3.896
	X-ACT -0.0019 -0.0084	Y-ACT C.CO14 C.CC55	T[R 0.00236 0.01268					

BASE THICKNESS (IN) 1.472

PROJECTILE LENGTH (IN) 16.57c

71 IS DISTANCE FROM MASE (IN)

72 IS CISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LCT 63 PROJECTILE B3

INSPECTION DATE 9/22/70

	(INS	INE	1	(nuts	IDE)
Z1		Y-ACT			X-ACT	Y-ACT	TTR	014
							0.001.0	4 070
1.90		-0.0019	C. C1 66 C		-C.0005		0.00149	4.979
2.90		-0.CO57	0.C1761		0.0033		0.00331	5.119
3.90		-C. CO55	0.01895		0.0021		0.00233	5.121
4.90		-c.01c1	C.01933		-0.0031		0.00314	4.979
5.90	0.0163	-0.0107	0.C1950	3.722	-0.0021	-0.0007	0.00221	4.453
6.90	C.0146	-C. CC54	0.C1736	3.832	-0.0019	-0.0003	0.00192	4.957
7.90	0.011t	-C.C079	0.01403	3.925	-0.0006	0.0	0.00060	4.953
8.90	0.00=2	-C.00El	C.CC 963	3.93C	-0.0013	0.0006	0.00143	4.054
9.90	0.0032	-3.0092	0.00974	3.932	-0.0038	0.0	0.00390	4.962
	(INS	17E)	(nuts	IDE)
12	X-ACT	Y-ACT	TIP	DIA	X-AC T	Y-ACT	TIR	614
5.75	C.0022	-0.0090	0.00526	3.930	-0.0009	0.0003	0.00095	4.482
	-C.COC9		0.00855		-0.0026	-0.0001	0.00260	4.888
	C. 0004		0.C151C		-0.0C25	0.0007	0.00260	4.70?
3.25	C. 000S		0.01422	3.623	-0.0029	0.0008	0.00301	4.580
2.15	-0.0012		C.01904		-0.0042	0.0004	0.00422	4.478
2.25		-0.0127	0.01277		-0.0031	0.0009	0.00323	4.276
1.75		-0.0067	0.00699	2.54?	-	4.0009	4.00090	4.093
1.25		-C.0U20	0.00623		-0.0021	0.0011	0.00237	3.092
	C	C • 0020	0.000	2.01,	00001.	0.00.1	0.000	
7.3	X-ACT	Y-ACT	TIR					
			•					
1.00	-0.013F	C. CO18	0.01352					
	-0.0123	0.0077	C.014F1					
• • •								

BASE THICKNESS (IN) 1.575

PROJECTILE LENGTH (IN) 16.649

ZI IS DISTANCE FROM BASE (IN)

22 IS DISTANCE FROM NOSE LINE

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LCT 63 PROJECTILE R4

INSPECTION DATE 9/17/70

	(INSI	DE	1	(OUTS	10F	1
Z 1	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIP	CIA
1.50		-C.CO41	0.01584	2.910	0.0014		0.00141	4.987
2.90	0.CO61	-0.C048	C.CO776	3.354	0.0C12	0.0018	0.00216	5.129
3.50	C.COPO	-C.C049	C.CO93P	3.471	0.0022		0.00234	5.124
4.70	C.00 37	-C.CO34	C.00989	3.580	0.0001	-0.0002	0.00022	4.984
5.90		-C.0030	C.C0824	3.704	0.0003	-0.0001	0.00032	4.050
6.50	0.0061	-0.C022	0.00648	3.821	0.0025	0.0001	0.00250	4.963
7.90	0.0034	-0.0009	0.00371	3.922	-0.0022	-0.0012	0.00251	4.957
8.90	C.0033	-C.COC5	0.00324	3.926	-0.0021	-0.0014	0.00252	4.96?
9.90	0.0048	0.0006	0.00484	3.935	-0.0C13	-0.0022	0.00254	4.962
			DE	1	(nurs	ICE	1
72	X - 7 L L	Y-ACT	TIP	DIA	X-AC T	Y- 4C T	Llo	CIA
	0.0030		0.00414	-	-0.CC11		0.00273	4.733
	C.0021		0.00236		-0.0009		0.00234	4.998
	-C.0041	-	C.CO546		-0.0C2C		0.00361	4.099
	-0.0079		0.00798		-0.0020		0.00403	4.577
	-0. COGB		0.00982	· -	C.0C05		0.00354	4.435
2.25	-0.0126	-0.0010	0.01264	3.283	-C.0C06	-0.0033	0.00735	4.273
1.75	-C.0134	-C.CC?7	0.01300	2.92C	-0.0CCS	-0.0030	0.00±10	4.080
1.25	-C.CO43	-0.0053	0.00492	2.615	-0.0015	-0.0036	0.00390	3.844
23	X-ACT	Y – V C T	110					
	-C.0049		C.COEFO					
7.00	-0.0153	C. CO FF	0.07113					

BASE THICKNESS (IN) 1.560

PROJECTILE LENGTH (IN) 16.670

- ZI IS DISTANCE FROM PASE (IN)
- 72 IS DISTANCE FROM NOSE (IN)
- Z3 IS CISTANCE FROM NOSE (IN) FOR THREAD TIR

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LCT 62 PROJECTILE RE

INSPECTION DATE 9/28/70

	(1851	ne)	(QUTS	IDE	1
Z 1			TIV					
1.90	-0.01F7	0.0050	0.C1936	2.911	0.0012	0.0001	0.00120	4.984
2.50	-0.0124	0.0002	0.01240			-0.0007	0.00175	5.125
3.50	-C.Cl>c	C.CC21	0.C1307	3.465	C.0003	-0.0	0.00030	5.125
4.90	-0.0115	C.CO19	0.01175	3.584	0.0017	0.0006	0.00190	4.995
5.90	-C.CC90	C.CC14	C. CC914	3.697	-0.0CC9	-0.0001	0.00031	4.357
6.50	-0.0078	C. CO15	0.00794	3.813	0.0CC1	0.0004	0.00041	4.951
7.90	-C.0047	- C • C	0.00470	3.016	-0.0003	-0.0003	0.00042	4.053
9.50	-0.0073	-C.CGCE	C.0073C	3.917	0.0005	-0.0002	0.00054	4.953
9.50	-0.0022	-0.0016	0.00272	3.920	0.0006	-0.0005	0.00079	4.953
	(INST	i)F	1	(nuts	100	1
72	X - QCL	Y-1(T	FIF	DIA	X-ACT	Y-AC T	TIQ	CIA
5.75	-C.OC4	-0.0019	0.00194	3.925	0.0023	-0.0006	0.00238	4 • 0 R D
4.75	0.0030	-C.CC25	0.00391	2.892	0.0030	0.0001	0.00200	4.802
3.75	C.0020	-0.0010	0.00307	2.746	0.0007	-0.0009	0.00114	4.() 5
3.25	0.0027	-C. CC25	C.CC375	3.640	0.0019	-0.C	0.00130	4.578
2.75	0. CG 6 7	-0.0042	C. 00791	3.511	0.0014	0.0004	0.00145	4.432
2.25	0.0110	-C.C045	C. 01189	2,310	0.0018	-0.0008	0.00197	4.270
1.75	0.0122	-C. CC10	0.01224	2.466	0.0026	-0.0002	0.00261	4.092
1.25	0.(098	-C.C055	C. C1 C7 P	2.649	0.0031	-0.n	0.00310	9.901
23	X - 1 C T	Y-ACT	TIR					
1.00	0.0029	0.0031	C.CO41P					
7.00	0.0273	0.0049	C. C2774					

BASE THICKNESS (IN) 1.539

PROJECTILE LENGTH (IN) 16.607

ZI IS DISTANCE FORM PASE (IN)

22 IS DISTANCE FROM NOSE (IN)

Z3 IS DISTANCE FREY NOSE (IN) FOR THREAD TIP

GUN PREJECTILE INSPECTION DATA

5/38 MK 66-0 LCT 64 PROJECTILE B1

INSPECTION DATE 09/15/70

	(INST	IDE)	(OUTS	IDE)
Z 1	X-ACT	Y-ACT	TIR	014	X-ACT	Y-ACT	TIR	DIA
	-0.0039		0.00453	2.898	0.0049	0.0011	0.00502	4. ' H3
2.90		-0.0060	0.00700	3.359	0.0010		0.00100	5.124
3.90	C.00C0	-0.0051	0.00518	3.477	0.0008	0.0014	0.00161	5.124
4.90	-0.0035	-C.0042	0.00547	3.598	0.0006	0.0008	0.00100	4.985
5.90	-0.0010	-0.0044	0.00451	3.709	-0.0012	0.0009	0.00150	4.055
6.90	0.0027	-0.0038	0.00465	3.829	0.0006	0.0011	0.00125	4.059
7.90	0.0004	-0.0039	0.00392	2.917	C.0006	0.0020	0.00209	4.957
3.90	-0.000E	-0.0065	0.00652	3.923	-0.0012	0.0017	0.00209	4.960
9.90	-0.0017	-0.0045	0.00481	3.922	-0.0011	0.0011	0.00156	4.967
	(INST	IDF)	(0015	IDE)
7.2	X-ACT	Y-ACT	TIR	AIG	X-AC T	Y- AC T	TTR	CIV
5.75	-C.00C1	-0.006°	0.00690	3.929	-0.0006	0.0018	0.00190	4.991
4.75	-C.0002	-0.0055	0.00550	3.680	0.0006	0.0016	0.00171	4.984
3.75	0.0034	-C.C050	C.00605	3.742	-0.0013	0.0010	0.00154	4.696
3.25	0.0056	-0.0024	C.00617	2.632	-0.0024	0.0010	0.00250	4.574
2.75	C. CO90	-0.0011	0.00907	3.49£	-0.0026	0.0020	0.00329	4.423
2.25	0.0053	C. 00C4	0.00532	3.295	-C.OCCP	0.0020	0.00215	4.270
1.75	0.0012	0.0015	0.00192	2.951	-0.0026	0.0013	0.00231	4.080
1.25	0.0066	0.0026	0.00703	2.620	-0.0020	0.0019	0.0027/	3.488
23	X-ACT	Y-ACT	TIP					
1.00	-0.0063	0.0040	0.00746					
7.00	- 0.0169	0.0111						

Base thickness 1.569
Projectile Length 16.663

GUN PROJECTILE INSPECTION DATA

5/28 MK 66-0 LCT 64 PROJECTILE B2

INSPECTION CATE 09/21/70

	(INSI	DE)	(OUTS	IDE	}
71	X-ACT	Y-ACT	TIR		X-ACT		TIR	CIA
1.30	-C.CC31	0.0020	0.00369	2.977	0.0002	0.0003	0.00036	4.094
2.50	0.C011	C. COC5	0.00121	3. 765	0.0C21	0.0002	0.00211	5.121
3.90	0.0005	C.CO17	0.00177	3.480	0.0008	0.0008	0.00113	5.121
4.50	-0.0021	-C.0019	0.00277	3.600	-0.0007	0.0008	0,00106	4.99?
5 , 90	-0.0008	-0.00C1	C.COCº1	3.714	-0.0001	0.0014	0.00140	4.956
5.90	C. 00 CF	-0.0033	0.00335	3.829	0.0001	0.0007	0.00071	4.056
7.90	-0.0002	-C.C031	0.00311	3.924	0.0007	0.0005	0.00086	4.057
R. 90	-0.0019	-C.C037	C.CO416	3.927	-0.0C15	0.0002	0.00161	4.958
9.90	-0.0043	-0.0037	0.00567	3.933	-0.0014	-0.0005	0.00149	4.940
	(INSI	DE)	(nurs	IDE)
1?	X - 2 C T	Y-ACT	TIR	DIA	X-AC T	Y-AC T	TIR	CIA
5.75	-0.00E1	-C.CC36	C.CO475	3.935	0.0019	0.0011	0.00220	4.986
4.75	-C.0043	-0.0033	0.00542	3.886	-0.0009	0.0007	0.00114	4.887
	-C.CO3E		0.00515	3.737	-C.0C08	0.0012	0.00144	4.700
3.25		-0.CO4C	0.00435	3.627	-0.0016	0.001 C	0.00199	4.577
2.75	0.0039	-0.C030	0.00492	3.491	-0.0004	0.0014	0.00146	4.435
2.25	0.0059	-C.0046	C.00748	3.301	-0.0009	0.0004	0.00098	4.270
1.75	0.0082	-C.CC39	0.CC508	2.943	-0.0013	C.0005	0.00139	4.088
1.25	0.0032	-0.0033	0.00460	2.634	0.0	0.0011	0.00110	3.499
73	x - v C L	Y-ACT	TIF					
1.00		0.0004	C.00243					
7.CO	0.0075	-C.C043	0.00865					

BASE THICKNESS (IN) 1.513

PROJECTILE LENGTH (IN) 16.664

- 71 IS DISTANCE FROM PASE (IN)
- 72 IS CISTANCE FROM NOSE (IN)
- 23 IS CISTANCE FROM NOSE (IN) FOR THREAD TIR

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LCT 64 PROJECTILE B3

INSPECTION DATE 09/22/70

	(INST	DE)	(outs	IDE)
Z 1	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIP	CTA
1.90	0.0075	C. C165	0.01812	2.962	0.0012	0.0004	0.00126	4.981
2.50	0.0045	0.0036	0.00576	3.364	0.0004	0.0001	0.00041	5.171
3.90	0.CC94	C.C060	0.01032	3.482	C.0001	-0.0003	0.00032	5.120
4.90	0.0060	C.0073	C.01004	3.597	-0.0006	0.0003	0.00067	4.982
5.90	0.005P	C.0075	C. CC948	3.712	0.0001	0.0007	0.00071	4.953
6.50	0.0049	C.CO 82	0.00955	3.827	0.0024	0.0015	0.00293	4.954
7. CO	0.0046	0.0085	0.00966	3.917	0.0010	0.0015	0.00180	4.952
8.50	0.0013	C. 01 C3	C. 01038	3.917	0.0010	0.0015	0.00180	4.952
9.90	0.0006	C.0123	0.01231	3.921	0.0008	0.0003	0.00085	4.958
	(INSI	DE)	(OUTS	IDE)
12	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-AC T	A] T	CIA
5.75	-C.0029	C. C150	0.01528	3.528	0.0016	0.0014	0.00213	4.984
4.75	-C.0044	C.C1 60	C.01563	3.887	0.001 P	0.0019	0.00262	4.RSO
3.75	-C.0020	0.0140	C.01414	3.691	0.0006	0.0011	0.00125	4.704
3.25	-0.0030	0.0089	0.00939	3.578	0.0015	0.0024	0.00283	4.581
2.75	-0.003b	0.0044	0.00522	3.445	0.0015	0.0015	0.00212	4.441
2.25	-0.0029	-0.CC14	0.00322	3.27C	0.0009	0.0015	0.00175	4.279
1.75	0.0016	-0.0075	C.00767	2.959	0.0013	0.0006	0.00143	4.097
1.25	0.0016	-0.0142	0.01429	2.624	0.0008	0.0011	0.00136	3.893
7.3	X-ACT	Y-ACT	TIR					
1.CO	C.C024	0.039	0.00449					
7. CO	0.0141	C. C185	0.02588					

BASE THICKNESS (IN) 1.533

PRCJECTILE LENGTH (IN) 16.664

ZI IS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUN PRCJECTILE INSPECTION DATA
5/38 MK 60-0 LCT 64 PROJECTILE 84
INSPECTION DATE 09/24/70

	(INSI	DE +	1	(OUTS	IDE)
Z 1		Y-ACT			X-ACT	Y-ACT	TIR	CTA
1.90	-0.0160	C.00C3	0.C1600	2.948	-0.0006		0.00143	4.991
2.50	-0.0056	-0.0036	0.00666	3.354	0.0046	0.0014	0.00481	5.122
3.90	-C.0103	-0.0035	C.01088	3.475	0.0049	0.0015	0.00512	5.124
4.90	-0.0121	-0.0024	0.01234	3.591	0.0	-0.0021	0.00210	4.981
5.70	-0.0135	~0.0015	0.01358	3.708	0.0001	0.0017	0.00170	4.95]
5.90	-0.0138	-C.00C6	0.01381	3.830	0.0023	0.0021	0.00311	4.951
7.90	-0.0159	-C.CO12	0.01595	3.918	0.0007	0.0020	0.00212	4.951
8.90	-0.0166	0.0010	0.01663	3.921	-0.0005	0.0022	0.00226	4.949
9.90	-0.0167	0.0035	0.01706	3.925	0.0007	0.0020	0.00212	4.951
	•		DE)			IDE	1
7.2	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	CIV
	-C.0183		0.02001		-0.0001		0.00091	4.981
	-C.0158		0.01753		-0.0006	0.0015	0.00162	4.882
	-0.0137		0.01452		-0.0010	0.0017	0.00197	4.697
	-0.0142		0.01462		-0.0014	0.0016	0.00213	4.573
	-0.0159		0.01581		-0.0011	0.0017	0.00202	4.432
	-0.0153		0.01531		-0.0022	0.0024	0.00326	4.274
	-0.Cl53		0.01537		-0.001 P	0.0017	0.00248	4.092
1.25	-0.0086	-0.CO61	0.01054	2.591	-0.0015	0.0018	0.00234	3.992
Z 3	X-ACT	Y-ACT	TIR					
	-0.C020		0.00244					
7.00	0.0111	-C.C146	0.01834					

BASE THICKNESS (IN) 1,5/8

PROJECTILE LENGTH (IN) 16.586

71 IS DISTANCE FROM BASE (IN)

ZZ IS DISTANCE FROM NOSE (IN)

INSPECTION DATE 9/24/70

```
(---- INSIDE - - - - - ) (- - - - - OUTSIDE - - - - - -)
      X-ACT Y-ACT
                    TIP
                                   X-ACT Y-ACT TIP
 Z 1
                            DIA
                                                           CIA
1.90 -0.0018 0.0142 0.01431
                             2.899 0.0
                                          0.0015 0.00150
                                                           4.982
2.90 -0.0020 0.0095 0.00971
                             3.356 0.0015 -0.0006 0.00162
                                                           5.119
3.90 -0.0060 0.0066
                  C.01C49
                             2.475
                                   0.0003 0.40.2
                                                 0.00124
                                                           5.123
                                                           4.990
4.90 -0.0083 C.00P2 0.01167
                             3.594 -0.0004
                                          0.001 G
                                                 0.0010P
                                                           4.954
5.90 -0.0128 0.0084 0.01531
                             3.710 C.0006
                                          0.0017
                                                  0.00180
5.90 -0.0153 C.0077 C.C1713
                             3.827 0.0005
                                                           4.954
                                          0.0015
                                                 0.00158
7.90 -0.0135 C.0078 C.02008
                             3.917 C.0C07
                                          0.0019
                                                 0.00202
                                                           4.954
8.50 -0.0213 C.COE6 0.02297
                             3.923 0.0006 0.0020
                                                          4.954
                                                 9.00209
9.90 -0.0191 C.0087 C.02C99
                             3.527 -0.0001 0.0021 0.00210
                                                          4.954
     (---- INSIDE - - - - - ) (- - - - OUTSIDE - - - - - -)
22
     X-ACT Y-ACT TIP
                            DIA X-ACT Y-ACT
                                                 TIO
                                                           CIV
5.75 -C.03C3 C.C1C0 0.02253
                             3.934 -0.0003 0.0017 0.00173
                                                          4.992
4.75 -0.0173
           C.C119 0.02100
                             3.887 0.0006 0.0028 0.00286
                                                          4.984
3.75 -0.01?3 C.0129 0.01792
                             3.719 -0.0008 0.0031
                                                 0.00320
                                                          4.700
0.0027
                                                          4.577
                             3.610 -0.0007
                                                 0.00279
2.75 -C.0136
                                                          4.436
            0.0123 0.01834
                             3.474 -0.0007 0.0032
                                                 0.00328
2.25 -0.0129
           C.01C4 0.C1657
                             3.284 -0.0005 0.0024
                                                 0.00245
                                                          4.275
1.75 -C. OC68
           0.0086
                  0.01096
                             2.92C -0.0CC1 0.0034
                                                          4.094
                                                 0.00340
1.25 -0.00°0 C.01C3 0.01304
                             2.61C 0.0005 0.0029 0.00294
                                                          3.813
73
      X-ACT
           Y-ACT
                    TIR
1.00 -0.00ff C.C057 C.0079?
```

7.00 0.0065 0.0254 0.02622

1.575 BASE THICKNESS (IN)

PROJECTILE LENGTH (IN) 16.579

ZI IS DISTANCE FROM PASE (IN)

72 IS DISTANCE FROM NOSE (IN)

INSPECTION DATE 9/22/70

```
(----- INSIDE -----) (----- OUTSIDE -----)
                                                         CIA
7.1
     X-ACT Y-ACT TIR
                           DIA X-ACT Y-ACT
                                                416
                                                        4.990
                                               0.00043
1.90 C.0049 -0.0113 C.01232
                           2.872 -C.OCC2 0.0C06
                                                        5.121
                           3.364 -0.0024 -0.0002
                                               0.00241
2.90 -0.0037 -0.0026 0.00452
3.90 -0.0061 -0.0045 C.0075H
                           3.482 -0.002C 0.0001
                                               0.00200
                                                        5.121
4.50
     C.0007 -0.0069 0.00694
                          3.598 -0.0023 0.0004
                                               0.00233
                                                        4.491
                          3.710 -0.0016
                                        0.0013
                                               0.00206
                                                        4.054
5.90 0.0036 -C.0072 C.00805
6.50 0.0069 -0.0065 0.00548
                           3.928 -0.0008
                                        0.0005
                                               0.00094
                                                        4.955
                                                        4.950
7.90 C.0030 -C.0084 C.01160
                          2.921 -0.0006
                                        0.0004
                                               0.00072
                                                        4.057
8.90
     C.0114 -C.0055 C.01515 3.524 -0.0014 0.0011
                                               0.00178
                                                        4.953
9.90
     0.0116 -C.011? 0.01612
                            3.926 -0.0020 0.0010
                                               0.00224
     617
72
     X-ACT Y-ACT
                   TIR
                          DIA X-ACT Y-ACT
                                                T I 13
5.75 C.0151 -C.C1C5 0.C1P39 3.924 -0.0C13 0.0C16 0.0C206 4.993
                          3.881 -0.0014 0.0020 0.00244 1.886
4.75 C.0151 -C.6161 C.01817
                                                        4.604
3.75 C.CC68 -C.CO21 0.00712
                           3.734 -0.0010
                                        0.0027
                                               0.00298
                                               0.00214 (.576
3.25 C.0025 0.0026 C.C0361
                          3.625 -0.0013
                                        0.0017
2.75 -0.0023 0.00PR 0.00910
                            3.489 -0.0017
                                        0.0016
                                               0.00233
                                                        4.436
                                                        4.270
2.25 -0.0059 C.0068 0.00900
                           3.200 -0.0013
                                        0.002C
                                               0.00230
1.75 -C.0154 C.0073 C.01726
                           2.953 -0.0C1C
                                        0.0014
                                               0.00172
                                                        4.049
                                                        3 PAC
1.25 -0.0104 0.0124 0.0161F
                           2.619 -0.0026
                                        0.0019
                                               0.00722
7.2
      X-ACT Y-ACT
                  TIR
1.00 -0.0069 -0.0023 0.00735
7.00 -0.012° C.0068 0.01458
BASE THICKNESS (IN)
                   1.520
PREJECTILE LENGTH (IN) 16.646
```

Z1 IS CISTANCE FROM MASE (IN)

ZZ IS DISTANCE FROM HUSE (IN)

```
(---- INSIDE ---- ) (---- OUTSIDE -----)
 71
      Y-ACT Y-ACT
                     TIP
                                     X-ACT Y-ACT
                                                    917
                                                              CIA
                             DIA
1.50
     C. CO36 U. CO25 C. CO438
                              2.995 0.0005 -0.601C 0.00112
                                                             4. 679
     0.0149 C.0045 C.01556
                              3.35F 0.0028 0.0006 0.00286
                                                             5.121
2.90
3.90
     0.0135
            C.CO4C C.014CA
                              3.484
                                    0.0023
                                            0.0004
                                                   0.00233
                                                             5.122
                                                             4.000
4.90
     0.0058
             0.0019 0.00598
                              3.605 -0.0007 0.0008
                                                   0.001C6
     C.0114 C.CO1C 0.C1144
5.50
                              3.717 -0.0004
                                            0.0007
                                                   0.00091
                                                             4.054
                                                             4.954
6.90
     0.0125 C.COC3
                    0.01250
                              3.833
                                    0.0CCP
                                            0.0010
                                                   0.00128
                                                             4.954
     0.0114 -C.COC7
                              3.919 0.0002 0.0015
7. 90
                    0.01142
                                                   0.00151
                              3.921 -0.0015
                                                             4.957
8.90
     C.0171 -C.0014
                    0.01218
                                            0.0014
                                                   0.00205
                                                             4.057
9.90
     C.0144 -C.CC17
                    0. C1450 3.922 -0.002C 0.0014
                                                   0.00244
      (----- INSIDE - - - - - ) (- - - - OUTSIDE - - - - -)
12
      X-ACT Y-ACT
                     TIR
                              CIA
                                     X-ACT Y-ACT
                                                   TIP
                                                             \Gamma \cap \Lambda
5.75 C.0127 -C.0023 C.01389 3.917 -O.0015 0.0027 0.00302
                                                             4.923
4.75 0.0115 -0.0007 0.01152
                              3.884 -0.0017 0.0026 0.00311
                                                             4.393
             0. C
3.75
     0.0033
                    C.00330
                              3.714 -0.0022 0.0039
                                                             4.1.94
                                                   0.00448
3.25 0.001P
                                                             4.572
             0.0034
                    0.00402
                              3.601 -0.0029 0.0030 0.00417
2.75 -0.0023
             C.CO77
                    C.00804
                              3.467 -0.0C27 C.VC21
                                                   0.00342
                                                             4.430
                                                             4.205
2.25 -0.0020
             C.CO7C
                   C.CC729
                              3.278 -0.0031 0.0026
                                                   0.00405
1.75 -0.0025
             0. C1 C5
                    C. C1C7C
                              2.910 -0.0013 0.0027
                                                   0.00300
                                                             4.064
1.25 -0.0716
             0.0025 0.00297
                              2.608 -0.0017 0.0027
                                                   0.00319
                                                             - 445
12
      X-ACT Y-ACT
                     TIR
1.CO -C.0C68 0.C083 C.01073
7.00 -0.0040 0.0058 0.00835
```

BASE THICKNESS (IN) 1.516

PROJECTILE LENGTH ([N) 16.654

- ZI IS DISTANCE FROM PASE (IN)
- ZZ IS CISTANCE FROM NOSE (IN)
- Z3 IS CISTANCE FROM NOSE (IN) FOR THREAD TIR

INSPECTION DATE 09/16/70

```
(- - - - - INSIDE - - - - - ) (- - - - OUTSIDE - - - - - -)
71
     X-ACT Y-ACT TIR
                           DIA
                                  X-ACT Y-ACT
                                                116
                                                         LIA
1.90 -0.0094 C.0224 C.02429
                                                        4.980
                           2.953 -0.0 -0.0005 0.00050
2.90 -C.CC72 0.0149 0.01655 3.362 0.0C11 0.0008 0.00136
                                                        5.122
                                                        5.121
3.90 -C.0059 C.0190 C.01989
                           3.47E -0.0
                                        0.0011
                                               0.00110
                                                        4.070
4.90 -0.0085 C.0218 0.02340
                           3.598 -0.0005 0.0007
                                               0.00086
                                                        4.940
5.90 -C.0044 C.0225 0.02293
                           3.713 -0.0
                                        0.0011 0.00110
5.90 C.00CR C.0218 0.02181
                                                        4.945
                           3.83C 0.0006 0.0003
                                               0.00067
                                                        4.046
7.90 0.0021 0.0226
                  C.C227C
                           3.919 0.0008 0.0012
                                               0.00144
8.90 0.0071 C.0219 0.02302
                           3.92C -0.00C5 0.0013
                                                        4.945
                                               0.00139
                                                        4.046
9.50 0.0101 0.0210 0.02330
                           3.920 0.0007 0.0021
                                               0.00221
     (- - - - - INSIDE - - - - - ) (- - - - - OUTSIDE - - - - - -)
7.2
     X-ACT Y-ACT TIR
                           DIA
                                 X-ACT Y-ACT TIR
                                                       CIA
5. 75
    C.C160 C.C225 C.C3761 3.919 0.0C17 0.0020 0.0C262
                                                        4.094
4.75
                                                        4.841
    C.0139 C.C179 C.C2266 3.883 0.0C16 0.0034 0.00376
3.75
     4.690
3.25
     C. CO 54 0. CO 38
                   0.01C14
                           3.612 -0.0035 0.0014 0.00377
                                                        4.571
2.75
     0.0066 0.0021 0.00693
                           3.480 -0.0010 0.0032 0.00335
                                                        4.433
2.25
     0.0059 C.C
                   0.00590
                           3.295 -0.0014 0.0031 0.00340
                                                        4.272
1.75
    0.0028 -0.0043 0.00513 2.541 -0.0002 0.0024 0.00241
                                                        4.090
1.25 0.0004 -0.0049 0.00492 2.614 0.0004 0.0041 0.00412
                                                       3. 292
23
     X-ACT Y-ACT TIR
1.00 -C.CCE4 C.CCC7 C.CO843
7. CO -C.01C9 C.0054 C.01216
```

BASE THICKNESS (IN)

PREJECTILE LENGTH (IN) 16.647

71 IS DISTANCE FROM PASE (IN)

72 IS DISTANCE FROM NOSE (IN)

73 IS DISTANCE FROM NOSE (IN) FOR THREAD TIR

1.542

```
(----- INSIDE -----) (----- OUTSIDE -----)
Z 1
     X-ACT Y-ACT TIP DIA
                                 X-ACT Y-ACT TIP
                                                         CIA
1.50 C.0065 -0.0117 0.01338 2.526 -0.0003 -0.0002 0.00036
                                                         4.097
5.122
                                                         5.126
3.50
    0.0014 -C.C154 C.01546
                            3.472 0.0003 0.0002 0.00036
                                                         4.084
4.90
    C.0033 -0.0145 0.01487
                            3.591 -0.0017 0.0
                                                0.00170
    0.0052 - 0.0127 - 0.01372
                            3.706 -0.0003 -0.0009 0.00095
                                                         4.960
5.90
                            3.826 -0.0001 -0.0009 0.00081
                                                         4.959
5.90
    0.0055 -0.0124 0.01357
    0.0025 -0.0105 0.01079 3.921 -0.0006 0.0002 0.00063
                                                         4.960
7.90
8.90 C.0036 -C.0088 C.00951 3.924 -O.0020 -O.0004 0.00204
                                                         4.950
9.90 C.0053 -C.0055 C.60764
                            3.925 -0.0010 -0.0006 0.00117
                                                         4.963
     (- - - - - INSIDE - - - - - - ) (- - - - OUTSIDE - - - - - -)
72
                           DIA X-ACT Y-ACT TIR
                                                         CIA
     X-ACT Y-ACT TIR
5.75 C.0071 -0.0038 C.00805 3.924 -0.0009 -0.0016 0.00184
                                                         4. 782
                                                         4.897
4.75 C.0021 -C.0025 C.00326 3.88C -0.0014 -0.0010 0.00172
3.75 -0.00°6 -0.0029 0.00462
                            3.691 - 0.0019 - 0.0013 0.00230
                                                         4.609
                                                         4.577
3.25 -0.0060 0.0004 0.00601
                           3.572 - 0.0030 - 0.0015 0.00335
2.75 -0.0063 0.0031
                  0.00702
                            3.443 -0.0023 -0.0026 0.00347
                                                         4.435
2.25 -0.0075
           C.0018 0.00771
                           2.273 -0.0024 -0.0020 0.0031?
                                                         4.271
                                                         4.040
1.75 -0.0119 0.0018 0.01204 2.955 -0.0017 -0.0018 0.00248
                            2.618 -0.0016 -0.0025 0.00297
                                                         3.486
1.25 -0.0160 0.0055 C.01692
23
           Y-ACT
                   TIR
      X-ACT
1.00 -0.0019 0.0052 0.00554
```

7.00 0.0230 C.C213 C.O3135

BASE THICKNESS (IN) 1.554

PROJECTILE LENGTH (IN) 16.599

71 IS DISTANCE FROM BASE (IN)

Z2 IS DISTANCE FROM NOSE (IN)

INSPECTION DATE 09/16/70

```
(- - - - INSIDE - - - - - ) (- - - - OUTSIDE - - - - - -)
Z 1
      X-ACT Y-ACT TIR
                            DIA
                                    X-ACT Y-ACT
                                                   TIP
                                                            CIA
1.90 C.CCP8 -C.0079 C.01183 2.985 -0.0007 -0.0010 0.00122
                                                            4.991
2.90 0.01C6 -C.CO98 0.01444
                             3.375 0.0016 0.0008 0.00179
                                                            5.124
3.90 0.0112 -C.C1C1 0.01508
                             3.486 -0.0033 -0.0005 0.00334
                                                            5.117
4.90 0.0134 -0.00EB 0.01603
                             3.606 -0.0022 -0.0018 0.00294
                                                            4.979
5.50
     0.0131 - 0.0113 \quad 0.01730
                             3.719 -0.0009 -0.0028 0.00294
                                                            4.057
6.90 0.0142 -C.C1(9 C.C1790
                             3.836 0.0005 -0.0023 0.00235
                                                            4.960
7.90 0.0124 -0.0120 0.01726
                             3.928 -0.0003 -0.0022 0.00232
                                                            4.959
8.90 0.0140 -0.0132 0.01924
                             3.932 -0.0011 -0.0020 0.00229
                                                            4.962
9.90 0.0134 -0.0161 0.02095 3.938 -0.0009 -0.0026 0.00275
                                                            4.962
     (-----INSIDE - - - - - ) (- - - - - OUTSIDE - - - - - -)
7.2
     X-ACT Y-ACT TIR
                            DIA X-ACT Y-ACT TIR
                                                            CIA
5.75 C.0137 -C.C2C4 C.C2457
                             3.935 0.0004 -0.0008 0.00097
                                                            4.995
4.75 C.O1C8 -C.C182 0.02116
                             3.892 0.001C -0.0020 0.00224
                                                            4.350
3.75
     0.0097 - 0.0142 0.01720
                             3.729 -0.0012 -0.0013 0.00177
                                                            4.703
3.25 0.01C4 -C.C144 0.01776
                                                            4.502
                             3.616 -0.0013 -0.0011 0.00170
     C.01C7 -C.C1C9 C.01527
                             3.486 -0.0015 -0.0015 0.00212
2.75
                                                            4.440
2.25 0.0106 -C.0100 0.01457
                                                            4.276
                             3.305 -0.0009 -0.0014 0.00166
                             2.564 -0.0002 -0.0018 0.00181
                                                            4.035
1.75 C.CCE8 -C.COE8 0.01112
1.25 0.0069 -0.0046 0.00829 2.638 -0.0009 -0.0017 0.00188
                                                            3.892
7.3
     X-ACT Y-ACT TIP
1.00 -0.0015 -0.0050 C.00522
7.00 -C.0191 0.0029 C.01932
```

BASE THICKNESS (IN) 1.542

PROJECTILE LENGTH (IN) 16.650

ZI IS DISTANCE FROM PASE (IN)

Z2 IS CISTANCE FROM NOSE (IN)

INSPECTION DATE 9/31/70

```
(---- INSIDE ---- ) (---- OUTSIDE -----)
      X-ACT Y-ACT TIP
                           DIA
                                 X-ACT Y-ACT
                                                TIR
                                                         CIA
71
1.90 -0.0252 -C.0280 0.03767 2.990 -0.0047 -0.0018 0.00F03
                                                       4.996
3.90 -C.0?34 -C.0?25 0.0?246
                           3.474 -0.0029 -0.0003 0.00292
                                                        5.174
                                                        4.086
4.90 -C.0212 -C.C185 0.C2828
                           3.593 -0.0028 -0.0013 0.00309
                                                        4.956
5.90 -C.0203 -0.0145 C.C2495
                            3.706 -0.0008 -0.0015 0.00170
6.90 -0.0144 -0.0120 0.01874
                           3.822 -0.0014 -0.0020 0.00244
                                                       4_050
                                                      4.054
7.90 -C.0100 -C.0087 0.01325 3.911 -7.0049 -0.0032 0.00585
9.90 -C.0090 -C.0040 C.00985 3.916 -0.0030 -0.0025 0.00301
                                                       4.996
9.90 -0.0120 -0.0014 0.01203 3.916 -0.0015 -0.0037 0.00403
                                                        4.460
     (- - - - - INSIDE - - - - - - ) (- - - - - OUTSIDE - - - - - -)
12
     X-ACT Y-ACT
                  TIR
                           DIA X-ACT Y-ACT
                                               TIR
                                                       UT 4
                                                        4.031
5.75 -C.VIC1 C.CO25 C.OIC43 3.924 -O.OCC2 -O.OC29 0.00291
4.75 -C.0090 C.0029 0.00848 3.884 0.0 -0.0021 0.00710
                                                        4.997
                                                      4.701
3.75 -C.0107 0.0052 C.01190 3.706 -0.0012 -0.0022 0.00251
3.25 -C.CC83 C.CO97 C.03277 3.587 -0.0014 -0.0024 0.00278
                                                        4.578
                           3.457 -0.0008 -0.0028 0.00291
2.75 -C.CO37 C.C140 0.C1448
                                                        4.436
                                                        4.276
2.25 -0.0026 0.0167 0.01690 3.281 -0.0002 -0.0027 0.00271
1.75 C.COC5 0.0216 C.C2161
                           2.964 0.0 -0.0028 0.00280
                                                       4.894
                                                        3.045
1.25 -0.00f2 0.0138 0.01380 2.627 0.0002 -0.0023 0.00231
12
     K-ACT Y-ACT TIP
1.00 0.0032 -0.0046 0.00560
7.00 C.0010 -0.0091 0.00915
BASE THICKNESS (IN)
                   1.505
PROJECTILE LENGTH (IN) 16.594
ZI IS CISTANCE FROM BASE (IN)
72 IS DISTANCE FROM NOSE (IN)
```

```
(- - - - - INSIDE - - - - - ) (- - - - OUTSIDE - - - - - -)
 71
       X-ACT Y-ACT
                     TIR DIA
                                   X-ACT Y-ACT
                                                   TIP
                                                            TTA.
1.90 C.0049 -C.CC77 C.CC913
                             2.966 0.0C1C -0.0C07
                                                  0.00122
2.90 C.COC7 -C.C166 0.C1661
                                                           4.574
                            3.352 0.0024 -0.0006
                                                  0.00247
                                                           5.121
3.90 C.0015 -C.0131 C.01319
                             3.471 0.0025 -0.0011
                                                  0.00232
4.50 -0.0012 -0.0131 0.01315
                                                           5.122
                             3.596 -0.0007 0.0001
5.90 C.0018 -C.CO69 0.00713
                                                  0.00071
                                                           4.031
                             3.712
                                   0.00CF 0.0
6.90 0.0015 -C.0049 0.00512
                                                  0.000R0
                                                           4.955
                             3.924
                                   0.0010 -0.0
7.50 0.0023 -0.0047 0.00523
                                                  0.00100
                                                           4.957
                            3.924
                                   0.0023 0.0004
8.90 C.CC19 -0.0020 0.00276
                                                  0.00233
                                                           4 . CF 7
                             3.92c
                                   0.0CC1 -0.0004
9.90 C.0030 -C.0023 0.00374 3.935
                                                  0.00041
                                                           4.057
                                   0.0009 -0.0005 0.00094
                                                           4.957
      (----) (-----) (-----)
 12
     X-ACT Y-ACT
                    IIB DIV
                                   X-ACT Y-ACT TIR
                                                           CIA
5.75 C.003C -C.C027 C.C0404
                             3.53c
                                   0.0015 -0.0005 0.00162
4.75 C.00C2 -C.CC19 C.CC181 3.852
                                                           4.307
                                   0.0015 -0.0005 0.00158
3.75 -0.0104 C.0001 C.01040
                                                           4.444
                             3.705
                                   0.0007 0.0006 0.00032
3.25 -C.0105 C.C015 C.01061
                                                          4.702
                             7.595
                                   0.0008 -0.0002 0.00082
2.75 -C.0072 C.0068 0.00090
                                                          4.581
                            3.456 0.0
                                         -0.0006 0.00060
2.25 -C. (OSA C. CO97 C. C1355
                                                          4.430
                                   0.0009 -0.0001 0.00091
                            3.290
1.75 -C.CCE2 C.C16C C.C1802
                                                          4.277
                            2.951 0.0017 0.0001 0.00170
1.25 -0.0046 C.0176 0.01819
                                                          4-017
                                   0.0023 0.0001 0.00230
                            2.64+
                                                          7.476
      X-ACT Y-ACT TIR
23
1.00 C.COC1 C.CO45 C.CC46C
7.00 0.0213 C.COEC C.C2275
```

BASE THICKNESS (IN) 1.596

PROJECTILE LENGTH (IN) 14.576

- ZI IS CISTANCE FROM PASE (IN)
- ZZ IS CISTANCE FROM NOSE (IN)
- Z3 IS DISTANCE FROM NOSE (IN) FOR THREAD TIR

INSPECTION DATE 9/25/70

```
(---- INSIDE ---- ) (---- OUTSIDE ----)
                                    X-ACT Y-ACT
                                                             CIA
71
      X-ACT Y-ACT
                    TIR
                              DIA
                                                    TTR
     0.0113 -0.0011 0.01135
                             2.947
                                    0.0014 -0.0004 0.00:46
                                                            4.997
1.90
                             3.358
                                                            5.120
2.90
     0.0104 - 0.0039 0.01111
                                    0.0017 0.0029 0.00336
3.90
     0.CC77 -C.0046 0.00897
                             3.472
                                    0.0026
                                           0.0045
                                                  0.00520
                                                            5.120
4.90
     0.0067 -0.0039 0.00741
                             3.588
                                    0.0008
                                           0.0004
                                                   0.00097
                                                            4.981
                                                            4.957
5.50
     0.0073 -0.0035 0.00P10
                             3.707
                                    0.0006
                                           0.0007
                                                   0.00003
                                    0.0023
                                           0.0009
                                                            4.957
5.50
     0.0083 -0.0037 C.00909
                             3.822
                                                   0.00247
                                                            4.957
7.90
     0.0CF6 -0.0C22 0.0089F
                             3.910
                                    0.0017
                                           0.0
                                                   0.00170
                                                            4.059
     0.0034 -0.0033
                                    0.0011
                                           0.0013
9.90
                    0.00902
                             3.916
                                                  0.00170
                                                            4.959
9.90
     0.0089 -0.0028
                    0.00933
                             3.916
                                    0.0015
                                           0.0008
                                                  0.00170
     (---- NSIDE ---- ) (---- OUTSIDE -----)
72
                                                             CIA
     X-ACT Y-ACT
                     TIR
                             DIA
                                    X-ACT Y-ACT
                                                    4 I T
5.75
    0.0098 -C.0029 C.01022
                             3.919 0.0020 0.0009 0.00219
                                                            4.974
4.75
    C.0096 C.00C1 G.00960
                             3.887 C.OC16 0.0019 0.00249
                                                            4.997
                                                            4.700
3.75
     0.0029 0.0020 0.0035?
                             3.736
                                    0.0013
                                           0.0016 0.00206
                    0.00256
3.25
     0.0024
             C.CC(9
                             3.628
                                    0.0015
                                           0.0014 0.00205
                                                            4.577
2.75
     0.0009
             C. CO20
                    0.00219
                             3.494
                                    0.0015
                                           0.0018
                                                  0.00234
                                                            4.437
             0.0003
                                    0.0025
2.25
     0.0018
                    0.00182
                             3.30C
                                           0.0011 0.00273
                                                            4.273
                             2.947
                                                            4.092
1.75
     0.056
             0.0076 0.00944
                                    0.0021
                                           0.0010 0.00233
                                    0.0013
1.25
     C. (0°0
             C.CO51 C.OO949
                             2.622
                                           0.0011 0.00170
                                                            3.800
13
      X-ACT
            Y-ACT
                    TIR
1.00 -0.0016 0.0053 C.00554
7.00 0.0006
            C.00CP 0.0010C
```

BASE THICKNESS (IN) 1.545

PROJECTILE LENGTH (IN) 16.590

ZI IS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

```
(- - - - - 1ASIDE - - - - - ) (- - - - OUTSIDE - - -
                    TIP DIA X-ACT Y-ACT
                                                    TIP
                                                             111
      X-ACT Y-ACT
 Z 1
                                                           4.084
1.90 -0.0123 C.CUC3 0.C1230
                              2.617 -0.0040 -0.0017 0.00435
                                                            5.125
2.90 -C.CC87 -C.0030 C.C0920
                             3.353 -0.0024 -0.0011 0.00264
3.90 -0.0179 -C.0048 0.01853
                              3.475 -0.0038 0.0002 0.00381
                                                            5.127
                                                            4.096
4.90 -C.0216 -C.0069 0.02268
                              3.593 -0.0019 -0.0008 0.00206
                                                            4.CFR
5.90 -0.0214 -0.0042 0.02181
                              3.709 -0.0034 0.0003 0.00341
6.90 -0.0231 -0.0058 C.02392
                              3.828 -0.0026 0.0005 0.00265
                                                            4.458
7.90 -0.0254 -C.0055 C.02599 3.918 -0.0038 -0.0005 0.00383
                                                           4.957
                              3.521 -0.005C 0.0002 0.00500
                                                           4.950
8.90 -0.0245 -0.0050 0.02500
                                                            4.959
9.90 -0.0269 -0.0056 0.02856
                              3.931 -0.0042 0.0004
                                                   0.00422
      (- - - - INSIDE - - - - - ) (- - - - OUTSIDE - - - - -)
                             DIA X-ACT Y-ACT TIR
                                                            CIA
12.
     X-ACT Y-ACT
                     TIR
5.75 -C.0262 -O.0135 0.02947
                             3.939 -0.0039 -0.000A 0.0039A
                                                            4.991
4.75 -C.0242 -C.C1C1 0.02632
                             3.893 -0.0051 -0.0001 0.00510
                                                            4.995
                                                            4.707
                              3.734 -0.0053 0.0009 0.00538
3.75 -C.0262 -O.0065 C.02699
                                                            4.591
3.25 -0.0235 -C.COC7 0.02351
                              3.625 -0.0073 0.0
                                                   0.00730
                              3.493 -0.0061 0.0004 0.00611
                                                            4.479
2.75 -C.C2C1 C.C031 0.02C34
                                                            4.275
2.25 -0.0194 C.0049 C.01904
                             3.310 -0.0064 0.0009 0.00646
1.75 -C.C156 C.OC76 C.O1735
                             2.960 -0.0059 0.0005 0.00592
                                                            4.000
                                                            3.927
1.25 -0.0143 0.0123 0.01986 2.630 -0.0062 0.0
                                                   0.00620
73
      X-ACT
            Y-ACT
                    T [R
1.00 -C.0098 -C.COC1 C.CC980
7.00 -0.0120 -0.0217 C.02480
BASE THICKNESS (IN)
                     1.547
PROJECTILE LENGTH (IN) 10.650
ZI IS CISTANCE FROM BASE (IN)
ZZ IS DISTANCE FROM NOSE (IN)
```

```
(----- INSIDE -----) (---- OUTSIDE -----)
                                                           CIA
7.1
     X-ACT Y-ACT TIR DIA
                                   X-ACT Y-ACT TIR
                                                           4.021
                            2.893 0.0
                                         -0.0001 0.00010
1.90 C.CO24 -0.0122 C.01243
                                                           5.122
2.90 - 0.0009 - 0.0124 0.01243
                            3.361 0.0026 0.0003 0.00262
                             3.477 0.0022 0.0005 0.0002/
                                                           5.120
3.90 -0.0013 -C.0123
                   0.01237
                                                           4.090
                                          0.0003 0.00095
                             3.594 -0.0008
4.90 -C.0029 -0.0118
                   0.01/15
                                          0.0002 0.00132
                                                           4.054
5.90 -0.0031 -0.0137 0.01405
                             2.712
                                   0.0013
                                                           4.057
6.90 -0.0025 -C.0130 0.01324
                             3.927
                                   0.0024
                                          0.0004
                                                  0.00244
                                                           4.755
7.90 -0.0039 -0.0091
                   0.00590
                            3.519
                                   0.0025
                                          0.0
                                                  0.00250
                                                           4.057
                   C. CC 903
                            3.924
                                   0.0024
                                          0.0003 0.00242
4.90 -0.0029 -C.CC55
                                   0.0030 0.0001 0.00300
                                                           4.954
9.90 -0.0044 -0.0093 0.01029
                            3.024
     (----INSIDE ----) (-----OUTSIDE -----)
                                   X-ACT Y-ACT
72
     X-ACT Y-ACT
                   TID
                             DIA
                                                 TIR
                                                           CIA
5.75 -C.0C52 -C.CC57 0.01101
                            3.923 0.001C 0.0C13 0.00144
                                                           4.CA2
4.75 -C.00C1 -C.CO61 0.CC61C
                             3.888
                                   0.0049 0.0
                                                  0.00490
                                                           4.893
3.75 C.0004 C.CCCH C.COCSG
                             3.770
                                   0.0040 0.0001
                                                  0.00400
                                                           4.707
                                                           4. 5 25
3.25 0.00C7 -C.COC1
                   0.00071
                             3.664
                                   0.0039 0.0002 0.00391
2.75 C. COC6 -C. CCC9
                   C. C0109
                            3.528
                                   0.0041 -0.0011 0.00424
                                                           4.442
2.25 -C.COC1 -C.CO14
                                   0.0052 -0.0007 0.00525
                                                           4.231
                   0.00140
                             3.329
                                                           4.090
1.75 C.CC17 -0.CC16 C.CC233
                             2.593
                                   0.0048 -0.0009 0.00498
                            2.647 0.0045 -0.0007 0.00455
1.25 0.0025 -0.0035 0.00495
                                                           3.800
2.3
     X-ACT Y-ACT
                   TIR
1.00 0.0062 -0.0012 C.00632
7.00 0.0301 -0.0056 0.03052
```

BASE THICKNESS (IN) 1.592

PROJECTILE LENGTH (IN) 16.595

- 71 IS CISTANCE FROM FASE (IN)
- 12 IS EISTANCH FORM NOSE (IN)
- Z3 IS CISTANCE FROM NOSE (IN) FOR THREAD TIR

THISPECTION DATE 9/16/70

```
(- - - - INSIDE - - - - - ) (- - - - CUITSIDE - - - - - -)
                                     X-ACT
                                                     TTR
                                                              CIA
7 ]
      X-ACT
              Y-ACT
                     TIP
                               DIA
                                           Y-ACT
                                                   0.00454
                                                             4.984
1,00 (.013/
            1.0193
                    7.01 +48
                              3.022 0.0045 0.0006
                                                   0.1117
            0.1175 0.01424 3.360 -0.0018 -0.0008
                                                             5.126
2,96 2,0121
                                                             5.12R
3,90 0,000 0,0075 0,01187 3,477 0,0001 -0,0010
                                                   2.00102
                                                             4.997
     1.7584 1.0791
                              3.600 -0.1005 -0.1006
4.37
                     0.01059
                                                    0.00078
                                                             4.058
                              3.712 0.0018 -0.0006
     0.0040 0.0050
                                                   2.00190
5,90
                    0.01105
5.92
                    0.01169
                              3.828 0.0005 -0.0018
                                                   1,13187
                                                             4.467
    . 30.26
            ٠, 1114
                                                   0.30619
                                                             4.952
7 50 (.05% 0.0133 0.0133) 3.610 -0.0054 -0.0030
8.99 -(. 1323 0.114
                    0.01163
                              3.914 -0.0004 -0.0010
                                                    0.00109
                                                             4.955
                                                             4.056
4.91 - 1.0136
                              3.919 -0.0009 -0.0014
                                                    1.72166
            1. 1143
                     7.01475
     (---- INSIDE - - - - - ) (- - - - OUTSIDE - - - - - -)
7 2
                     TIR
                             OTA
                                    X-ACT Y-ACT
                                                     TIR
                                                              CIA
      X-ACT Y-ACT
5.75 -1.1048 1.1157 C.C1642 3.524 -1.0005 -0.1021 0.10216
                                                             4.997
4.75 -0.0059 0.0152 0.01627 3.875 0.0031 0.0004 0.00312
                                                             4.887
3 75 -0.0021 0.0161
                            3.700 -0.0025 -0.0021
                                                   0.00326
                                                             4.639
                    2.01642
3.25 -1.0120 1.1125 0.01365 3.580 -0.0018 -0.1016
                                                             4.576
                                                   0.17241
7.75 -(. 1728 1.0767
                    7.00724
                              3.440 -0.0029 -0.0028 0.00403
                                                             4.435
2,25 -1,0142
            2.1762
                    0.00740
                            2.260 -0.1120 -0.1022
                                                   1. 10344
                                                             4.775
1.75 -1.1745
           1.0126 0.01710
                              2.945 -0.1023 -0.1025
                                                   7.30347
                                                             4.794
1.25 -1.01 14 -1.3020
                    0.10234
                              2.617 -0.(025 -0.0025
                                                   0.00354
                                                             7.954
73
      X-ACT
            Y-ACT
                     TTP
1,00 -0.0042 -0.0067 0.00761
7.0 - - 1175 - 0.0137 0.01642
```

BASE THICKNESS (IN)

DROJECTILE LENGTH (IN) 14. FGC

- 7' IS PISTANCE FROM PASE (IN)
- 72 IS FISTANCE FROM NOSE (IN)
- 77 IS DISTANCE FROM NOSE (IN) FOR THREAD TIR

1.465

```
(---- INSIDE ---- ) (---- OUTSIDE -----)
                                    X-ACT Y-ACT
                                                              CIA
71
      X-ACT Y-ACT TIR
                              DIA
                                                     TIR
1.50 0.0142 -C.CO74 C.01601
                              2.893 0.0019
                                            0.0007
                                                    0.00202
                                                             4.983
                                                             5.124
2.90 0.0070
            C.00C6 0.00703
                                    0.0024
                                                    0.00376
                              3.361
                                            0.0029
                                    0.0010
                                                             5.123
3.90
     0.0081
             C.00C8 0.00814
                              3.476
                                            0.0037
                                                    0.00383
4.90
     C.0101
             0.0004
                     C.01011
                              3.601 -0.0010
                                            0.0019
                                                    0.00215
                                                             4.985
                                                             4.954
5.90
     0.0123
             C. CO 33
                              3.709
                                     0.0025
                                            0.0026
                                                    0.00361
                     C.01322
                                                             4.951
5. 50
     0.0141
             0.0045 0.01480
                              3.825
                                     0.0020
                                            0.0021
                                                    0.00290
                                                             4.952
7. 90
     0.0132
             0.0061
                     0.01454
                              3.921
                                     0.0019
                                            0.0027
                                                    0.00330
                                                             4.051
9.90
     0.0132
             0.0065
                    0.01382
                              3.920
                                    0.0C14
                                            0.0024
                                                    0.00278
                                                             4.950
9.50
    0.0117 0.0064 0.01351
                              3.92F
                                     0.0008
                                            0.0022
                                                    0.00234
                                     (- - - - - OUTSIDE - - - - -)
     (---- INSIDE ----)
      X-ACT
                     TIP
                                     X-ACT Y-ACT
                                                              111
72
            Y-ACT
                               DIA
                                                     TIR
                                                             4.091
5.75
     0.0111
             0.0076 0.01345
                              3.528
                                    0.0005
                                            0.0022
                                                    0.00220
4.75 0.0092
             C.OC53 C.O1C93
                              3.976
                                    0.0019
                                            0.0034
                                                    0.00389
                                                             4.994
                                                             4.637
3.75
    C.0088
             C.0047 O.CC598
                              3.731
                                     0.0017
                                            0.0034
                                                    0.00390
                                                             4.575
3.25
     0.0069
             0.9014
                              3.622
                                     0.0010
                                            0.0036
                                                    0.00374
                    U. CO704
                                                             4.424
2.75
     0.0050
                              3.483
                                    0.0013
                                            0.0040
                                                    0.00421
             C. JUC4
                    0.00502
                                                             4.275
2. 25
                              3.292
                                                    0.00367
    0.0055
             C. COC5 | C. COEF2
                                     0.0007
                                            0.0036
                                                             4.095
1.75
     0.(CFF -C.00C9 C.00855
                              2.941
                                     0.0010
                                            0.0029
                                                    0.00403
1.25
     0.0065 -0.0035 0.00919
                                                    0.00427
                                                             3.395
                              2.62P
                                    0.0012
                                            0.0041
13
      X-ACT
            Y-ACT
                     TIP
1.00 -0.00P4 C.00C7 C.00P43
7. CO -C. 01C9 C. CO54 0. 01216
```

The color court weeks

BASE THICKNESS (IN) 1.596

PPCJECTILE LENGTH (IN) 16.584

ZI IS CISTANCE FROM PASE (IN)

22 IS DISTANCE FROM NOSE (IN)

```
INSECTION LAIR
     Z 1
     X-ACT Y-ACT
                  TIP DIA
                                X-ACT Y-ACT
                                                TIP
                                                        CIA
1.50 -C.C014 -C.CG49 C.CO51C 2.506 0.0
                                                       4.991
                                       -0.0015 0.00150
2.90 -0.0014 0.0014 0.00198
                           3.349 -0.0009 -0.0013 0.00159
                                                       5.127
3.50 -C.0042 -C.CCC5
                  0.00423
                           3.462 -0.0003 0.0014 0.00143
                                                       5.123
4.90 -0.0058 C.CO10 0.00539
                           3.576 -C.0008 0.0014 0.00161
                                                       4.002
5.90 -0.0053 C.0013
                  0.00545
                           3.694 -0.0CC1
                                        0.0
                                               0.00010
                                                       4.059
5.50 -0.0065
           0.0025
                  0.00679
                           3.817 -0.0C04
                                                       4.950
                                       0.0
                                               0.00040
7.50 -C.0045 C.0045
                  0.00636
                           3.912 -0.001C
                                       0.0013 0.00164
                                                       4.907
8.90 -0.0050 0.0044
                  C. 00666
                           3.920 -0.0015 0.0022 0.00296
                                                       4.963
9.90 -0.0070 C.CO61
                  0.00529
                           3.923 0.0003 0.0040 0.00401
                                                       4.759
     (----- INSIDE -----) (----- OUTSIDE -----)
22
     X-ACT Y-ACT
                   TIR
                           1) [ A
                                 X-ACT Y-ACT
                                               T[Q
                                                       PIA
5.75 -C.CC72 C.OO71 C.O1011
                           3.931 -0.0017 0.0015 0.00227
                                                       4.920
4.227
3.75 -0.0062
           0.0074 0.00965
                          3.729 -0.0C47
                                       0.0026 0.00537
                                                       4.70?
3.25 -0.0043 C.0067
                  0.00920
                           3.610 -0.3029 0.0036 0.00462
                                                       4.590
2.75 -C.CC10
           0.0042
                  0.00432
                           3.478 -0.0034
                                       0.0027 0.00434
                                                       4.438
2.25 -0.0004 0.0040
                  0.00402
                          7,296 -0.0035 0.0042 0.00547
                                                       4.277
1.75 C.0052 -C.0023
                         2.957 -0.0034 0.0037 0.00502
                  0.00559
                                                       4.096
1.25 0.0042 -C.C113 0.01206 2.612 -C.0C34 0.0052 0.00621
                                                       3. 8 1K
73
     X-4CT Y-ACT
                  TIR
1.00 -0.0045 0.0034 C.00734
7.00 -0.0259 0.0124 0.02962
BASE THICKNESS (TN) 1.538
PREJECTILE LENGTH (IN) 16.509
71 IS CISTANCE FROM PASE (IN)
ZZ IS DISTANCE FROM NOSE (IN)
```

SUN PROJECTILE INSPECTION DATA 5/38 MK 54- LOT 67 PROJECTILE 84

INSPECTION PATE 9/16/70

	(INST	DE	1	(DIITS	10=	1
7 1	X-ACT	Y-ACT	TIP	DIA	X-ACT	Y-ACT	TIQ	617
1,50	-	-0.7342	7, 74446	2.894	•	0.0015	0.10234	4.795
ن ۾ , و	•	-1,2196	J. J.3.12E		1.0C17	0.017	0.70247	5.122
3 . 6 .	-	-1. '1 cg	3.02894	3.496	-0.0009	7.1017	0.00102	5.124
4,911	2.7530	-1,1207	0.12818	3.611	-0.0015	0.0006	0.00162	4.984
5.99	1. 175	-2.1228	0.02 P74	3.727	0.0032	0.0014	0.30141	4.955
4,90	7. 1136	-1.1713	1.12527	3.840	0.0022	0.0016	0.00242	4.955
7.93	2, 21.16	-1.3109	. 03598	3.020	-1.0001	0.1010	2.161.2	4.957
9.00	1. 10 57	-7.7187	O. CICER	7, 632	-0.0236	2.0012	2.22134	4.950
0.00	0.0043	-1.1170	2. 21 754	•	1.0009	0.0021	0.00228	4.757
1.1	•	•			,,			
	(INST	nr	1	(gurs	IDF	1
7.2	Y-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	CIA
				• •			. •	
5 . 75	- 1,0012	162	1.11624	3. C43). 114	1.0017	0.00157	4.485
4,75	-('.) > SP	-7.1104	1.01191	3.512	-1.0009	0.0014	0.00156	4 . 4 . 4
3,75	-0.0075	-2.126	0.00794	2.751	0.0001	2.0007	1.11171	4.696
7 25	- 1. 25 77	2,2300	3. 1775	7,430	9.0007	0.0014	1.001.57	4.573
		7,0025	" nr ca2		-0.0001	2-2016	2.22160	4.422
	40, 1501		n. 1225		-9.0035	0.0005	0.00071	4.267
	1047	1, 127	0.01525		-0.0003	0.2011	2.15114	4.095
	-1.01.0	1,0125). (1601		-0.0015	3.0015	0.00212	3,877
1	- 1	• 11/2	14.12.1	<. O. I.		3. 101T ~		3.077
73	X-ACT	Y-101	TIR					
, ,	* - 1/1	1 = 11, 1	. 1 %					
1 . 10	-1 -1 -1 -1	-1.0129	7. 57484					
	, 1		_					

BASE THICKNESS (IN) 1. FAC

PROJECTIVE LENGTH (IN) 16.655

71 IS CISTANCE FROM PASE (IN)

72 IS CISTANCE FROM NOSE (TN)

ENSE WE EVEL FUL BY BECTLON DATA

INSPECTION DATE 9/14/70

			DF				ID:	
7 1	X - V. I	V-1(; }	112	OTA	X- 0(, 1	γ- Δ(,)	TIP	DΤΔ
1,90	420 62	-1.0100	0.01250	2,540	0.0002	^. `	1.00.23	4.036
2.00		-0.3126	0.01280	7. 345	-1.115	- 1.1685	2.0150	F. 176
2,50	. 1771	-1.1114	1.01 201		-7.1116) • . Di 52	F. 122
4.00		-1.1115	1.01151	3.654	1.1012	מחנים מ	0.03203	4.786
E, Q(-0.7115	7. "1100		- 1.0000		7. 10191	4.355
4.30). ~ ~ FK	-1.116	7.01217		~ ~ 7.76		0.00061	4.950
7,90		-2.0391	0.71015		((14		1,100	4.055
8,00		- 1, 1107	0.00044		-1.011		J * J (1 K)	4.035
0,40	1.112	- 1. 7775	0.11776	3.633	- >• 00) I	1.7711	J. 0110	4.959
	(1451	of)	1	nurs	IDE	1
7 7							119	
	. 11.5					u saran		
5,75		-0, 2047	111570	3.031	0.3030	0.0017	9. 3.430	4.012
4,75		-1.1029	," () ()	2. 297	7. 1100	1. 1.124	1. 10255	4.887
3,75		-7.37.23	0.01P3B	3.722	(. C	1,1125	J. 10756	4.70
7, 2E		-7.30.89	0.10640	3.615	0.1102	0.))27	1.0)271	4.59
2,25			0,00069	3.484	7.1635	0.0035	1.71495	4.44
1.75		-1.122	0.01094 0.01548	2.027	1.12	(• JJ3]	1.1024	4.502
1,25		-1,2105	11169	2,436	0.0072		1. 11298	3 0 3
1 , 7	•	- 1, A.S.	• 1:0"	វ•កភព	· he	() () 7 %	1	•
7.3	X - 1 (T	Y- 1 C T	TIP					
1,00	J 34	1,11,18	ח, רר כהן					
7,00	7.7114	7.0170	0,02047					
PASE	THICKNE	SS (IN)	1 625					
	1.1.1.1		(• ·					
ومدرا	CILLET	CMGTH (IN	1 16.662					
71 [S CISTANI	LE EGUÍN D	455 (IN)					
ן רי	; DISTAN	LE EBUN W	חלב (141)					

7" IS CISTANCE FROM NOSE (IN) FOR THREND THE

GUN PROJECTILE INSPECTION DATA

5/38 MK 64-0 LCT 68 PROJECTILE BI

INSPECTION DATE 9/25/70

71	(X-ACT	[NS] Y-ACT	TIP) DIA	7	OUTS Y-ACT	118 10E)
2.90 3.90 4.90 5.90 6.90 7.90	-0.0212 -0.0147 -0.0155 -0.0150 -0.0114 -0.012? -0.0111	C.COC5 -C.GOC8 -0.GO26 -C.GO20 -C.GO27	C.C2134 O.C1472 C.O1551 O.C15C2 C.O1189 O.O1236 O.O1236 C.O142 C.O1C69	2.982 3.367 3.480 3.605 3.713 3.828 7.919	0.0025 0.0008 -0.0001 0.0015 0.0022	-0.0002 0.0002 0.0005 -0.0002 0.0004 -0.0002 0.0001	0.00181 0.00251 0.00094 0.00022 0.00155 0.00221 0.00160 0.00045	4.981 5.122 5.122 4.991 4.957 4.957 4.957
	-0.0077		0.00070	3.927	_	-0.0001	0.00091	4.054
2.75	X-ACT -C.0032 -C.0010 0.0044 0.0019 C.0001 -0.0010 C.0005	Y-ACT -0.0077 -0.0066 -0.0042 -0.0041 -0.0013 -0.0035	TIR C.00834 0.00668 0.00603 0.00452 0.00143 0.00364 C.00567 0.00547	DTA 3.936 3.902 3.693 3.568	X-ACT 0.0C19 0.0C10 -0.0C03 0.0005 -0.0002 0.0003	OUTS Y-ACT 0.0015 0.0018 0.0013 0.0008 0.0010 0.0019 0.0017 0.0013	10E TIR 0.00242 0.00205 0.00133 0.00094 0.00102 0.00192 0.00278 0.00198) CIA 4.987 4.986 4.609 4.577 4.436 4.274 4.094 3.805
73	x + v C T	Y-ACT	TIP					
	-0.0020 -0.0165	-0.001° -C.0171	0.00265 0.02376					

BASE THICKNESS (IN) 1.524

PROJECTILE LENGTH (IN) 16.583

ZI IS CISTANCE FROM HASE (IN)

Z2 IS CISTANCE FROM NOSE (101)

STAB WR TV-L FULL THREECTION UVIV

INCOCCTION DATE 0/21/70

```
(- - - - INSIDE - - - - - ) (- - - - OUTSIDE - - - - - -)
        Y-ACT Y-ACT
                        410
                                             X-ACT Y-ACT TIR
                                    DIA
               0.0142 0.00587
0.0165 0.(1757
0.0065 0.0010
                                    3.006 0.0009 +0.0004 0.10109
                                                                          4.200
1.00 -0. 1741
3.00 - 2.00 - 27
                                    3.362 -0.021 -0.138 1.3225
2.470 -0.0028 3.3005 3.30284
                                                                          5.123
                                                              1.00284
                         · . . . . f c
3,00 - 7. ( 745
                                                                          5.135
                                    2.602 -1.0035 -1.003
2.714 -1.0067 -0.003
2.831 -1.0065 -0.002
2.613 -0.002 -0.001
                                                              0.00351
                1,1047
                         . . . . . . . . .
4, 20 - 1, 10 66
                                                                          4.007
                         1,00 F1C
                                                              7. 19.175
5,90 -0.1146
                1.1124
                                                                          4.961
                1.0010
                                                               7. 77 154
4,40 -1,1-17
                                                                          4.950
7,99 = 1,000 0,0007 0,0000
8,90 = 0,0064 = 1,0015 0,0064
                                                               1,10022
                                                                          4.050
                                    2.01c -0.0728 1.0011 0.00202
                                                                          4.059
0.00 -0.007/ -0.0011 0.00768
                                     2,020 -0,0042 0,0011 0,00325
                                                                          4.061
       3.037 -0.0110 0.0110 0.00141
3.037 -0.0038 0.0010 0.00141
F. 75 -1. 1 40 -1.1125 1.01550
                                                                         4.604
4.7F = 0.1046 = 0.0044 0.00437
2.7F 0.0014 = 0.0036 0.00286
                                                                         6,920
                                                                          4.7 1
                                    7.710 -1.0025 1.0022 1.0023
4,75
      1,117 - ,1169 1,1116
                                    7,594 -0,5794
                                                     1.117 1.11340
                                                                          4,601
                                    2.462 -0.0072
7, 75
      C. 117F - 1,0087 1,01867
                                                                          4.416
                                                     7, 924 5, 10427
      + = 0.01f1
- 61 = 0.0117
                                                                          4. ^ 76
                        7. 1/12
7,75
                                    2.272 -0.0115
                                                     7.7032
                                                              1. 172F3
      7.0141 -0.0117 1.01240
1.0162 -1.1173 -0.01254
1,75
                                    7. 010 -0. 1014
                                                     0.7723
                                                              7.00337
                                                                          4.306
1.25
                                    2. FGC - 1. (7)
                                                     7.1132 7.45
                                                                          2000
 7 3
       X-ACT
               Y-ACT
                          TID
1,00 -0, 171 0,0083 0,01 02
7,00 -0,0104 3,0087 0,11264
```

RASE THICKNESS (IN) 1. FOT

PROJECTIVE LENGTH (IN) 14,400

- 21 IS PISTANCE FORM PAGE (IN)
- 72 IS LISTANCE FROM MOSE LINE
- 79 IS PISTANCE FROM MOSE (IN) FOR THREAD TIR

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-C LCT 69 PROJECTILE B3

INSPECTION DATE 9/24/70

```
(- - - - INSIDE - - - - - ) (- - - - OUTSIDE - - - - - -)
       X-ACT Y-ACT
 7.1
                      TIR
                               DIA
                                     X-ACT Y-ACT
                                                     TIR
CF 0.0140 الم. 0.0140
                    0.03356
                              2.778 0.0011 -0.0009 0.0014?
                                                             4.981
                     0.01154
                              3.35C
                                                   0.00226
2.90 -0.0112 -0.0028
                                    0.0005 -0.0022
                                                             5.124
3.90 -0.0156 -C.0034
                     0.01597
                              3.468 0.0006 -0.0017
                                                   0.00180
                                                             5.123
4.90 -0.0167 -0.0061
                     0.01856
                              3.593 -0.0009 0.0009
                                                   0.00127
                                                             4.982
                                                             4.955
5.90 -0.0195 -0.0021
                     0.01872
                              3.701 -0.0021
                                            0.0009
                                                   0.00228
                                                             4.955
5.90 -0.0167 C.0005
                              3.819 -0.0027
                    0.01671
                                           0.0007
                                                   0.00279
                                                             4.956
7.90 -0.0176 C.0017 C.01768
                              3.917 -0.0016 0.0014
                                                   0.00213
                                                             4.055
                              3.922 -0.0024 0.0009
8.90 -0.0182 C.0026 0.01829
                                                   0.00256
9.90 -0.0194 0.0047 0.01996
                            3.928 -0.0033 0.0013 0.00355
                                                             4.955
      12
                                                             4.981
            C. CO59 C. C2191
5.75 -C.0211
                              3.936 -0.0021 0.0002 0.00211
             C.0042
                    0.01926
                                                             4.485
4.75 -C.0188
                              3.896 -0.0035
                                           0.0016 0.00385
                                            0.0013
                                                   0.00402
                                                             4.699
3.75 -C. C168
             0.0945
                    0.01739
                              3.743 -0.0C38
3.25 -0.0131
                                                             4.570
             C.0042
                    0.01376
                              3.634 -0.0038
                                            0.0017
                                                   0.00416
2.75 -0.0059
             0.0034
                    0.00681
                              3.506 -0.0035
                                                   0.00398
                                                             4.435
                                            0.0019
2.25 -C.0027
             0.0044
                    0.00516
                              3.330 -0.0045
                                            0.0017
                                                   0.00491
                                                             4.275
1.75 0.0021
                              2.994 -0.0034
             0.0016
                    0.00264
                                            0.002C
                                                   0.00394
                                                             4.()74
1.25 0.0045
            0.0005 0.00453
                            2.658 -0.0028 0.0026 0.00382
                                                             3.496
12
      X - ACT
             Y-ACT
                     TID
1.00 -0.0023 0.0063 0.00671
7.00 -0.0009 0.0155 0.01553
BASE THICKNESS (IN)
                      1.626
```

PPCJFCTILE LENGTH (IN) 16.582

ZI IS CISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (191)

GUN PROJECTILE INSPECTION DATA

5/28 MK 66-0 LCT 68 PROJECTILE 84

INSPECTION PATE 09/16/70

```
-0.0010 0.00100
0.0009 0.00150
             0.0203
                               2.904 -0.C
                                                                4.41
1.90 -0.0067
                     0.02138
                               3.357 -0.0012 0.0009
             0.0115
                     0.01705
                                                                5.120
2.30 -0.0112
                               3.474 -0.0007 0.0027
                                                     0.00273
                                                                5.120
3.90 -0.0097
             C.C1C7
                     0.01444
                                                                4.991
                               3.597 -0.0016 -0.0003
             0.0083 C.01065
                                                     0.00163
4.90 -0.0060
                                                                4.050
                    0.01325
5.90 -C.CCF7
             0.0100
                               3.707 -C.0003 -0.0009
                                                     0.00127
                                                                4.958
                               3.824 C.OCC1 -0.0C14
6.90 -0.0047
             0.0100
                     0.01105
                                                     0.00140
                               3.914 0.0003 -0.0013
                     0.00003
7.90 -0.0320
             0.00 90
                                                     0.00137
                                                                4.912
                                                                4.561
9.90 -C.0027 C.0089 O.(CS3C
                               3.919 -0.0015 -0.0019 0.00234
                               3.919 -0.0014 -0.0016 0.00212
7.50 C.0024 C.0084 C.00874
                                                                4.7164
      (----- INSIDE ----- ) (----- CUTSIDE -----)
                      113
                                      X - ACT Y - ACT TT
1)
      X = A \cap T Y = A \cap T
                                                                CIA
                               CIA
                                                               4. 6,126,
5.75
     C.30C4 C.CO75 C.00751
                               3.525 C.CCCE U.0002 0.0004
                     0.00645
                                                     0.00117
4.75
                               3.89C 0.001C -C.0006
                                                                4.830
     C.0014 C.0063
                               3.710 -0.0011 -0.0012
3.594 0.002# 0.0002
3.461 0.0004 -0.0009
                                                     0.001-
     C. F019 -C. C02!
3.75
                     0.00277
                                                                4.703
                                                     0.00221
                                                                4.6 12
3.25
     0.0031 -0.0027
                     C.CO411
                                                     0.000000
     0.0034 -0.0020
2.75
                     0.00486
                                                                4.44
                               3.282 -0.0017 -0.0017 0.00240
     0.0052 -0.0043
2.25
                     0.00205
                                                                4.000
1. 75
     C.C1CS -C.CO8! C.C1256
                               2.959 -0.0011 -0.0007 0.00130
     0.00°1 -0.0091 0.0121°
1.25
                               2.437 -0.0002 -0.0023 0.00231
7 ?
      X - \Delta \subset \Gamma
             Y-1(1
                      T18
1.00 C.0010 -0.0032 C.00435
7.00 -1.0024 -0.0285 0.02860
```

RASE THICKNESS (IN) 1.554

PROJECTILE LUNGTH (IN) 16.655

ZI IS DISTANCE FREM PASE (IM)

ZZ IS DISTANCE FROM NOSE (IN)

73 IS FISTANCE FOR NOSC (IN) FOR THREAD TIP

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LCT 68 PROJECTILE 85

INSPECTION DATE 9/16/70

	(INST	DE)	(nuts	IDE)
21	X - 1 C T	Y-ACT	TIR	DIA	X-ACT	Y- AC T	110	CIA
1.90	-0.C012	C.C183	0.01834	2.988	0.0012	0.0011	0.00163	4.080
	0.0025	C.0085	38800.0	3.258		0.0014	0.00255	5.121
3.90	-0.0012	C.01C0	C.01007	3.477	-0.0029	0.0014	0.00322	5.121
4.90	-0.0034	C.01C8	0.01132	3.602	0.0002	0.0013	0.00132	4.978
5.9)	-0.0015	0.0110	0.01110	3.716	0.0005	0.0025	0.00255	4.954
5.90	-0.0020	0.0120	0.C1217	3.831	0.0C17	0.0023	0.00286	4.955
7.50	-0.0048	C.01C6	0.C1164	3.922	0.0016	0.0021	0.00264	4.952
8.30	-0.0066	C.01C4	0.01232	3.922	0.0002	0.0021	0.00211	4.051
9.50	-0.0045	C. C1 C1	C. C1106	3.926	0.0006	0.0026	0.00267	4.981
	(INST	0E)	(DUTS	IDE)
12	X-ACT	Y-ACT	TIR	DTA	X-ACT	Y-AC T	TID	CIA
5.75	-C.CCa2	C.C127	0.01517	3.928	0.0018	0.0035	0.00394	4.485
4.75	-0.0033	C.C1C7	0.01419	3.891	0.0028	0.0037	0.00454	4.890
3.75	-0.0054	0.0000	0.01250	3.712	0.0007	0.0043	0.00436	4.701
3.25	-0.0127	0.0095	J.01586	3.595	0.0007	0.0031	0.00318	4.570
2.75	-0. C147	C.C116	0.01873	3.459	0.0011	0.0035	0.00367	4.440
2.25	-0.0134	0.0113	C.C1794	3.275	-C.0004	0.0031	0.00313	4.279
1.75	-0.0129	0.0131	0.01832	2.936	0.0012	0.0027	0.00295	4.()90
1. 25	-0.0007	G. CU F 4	C.Cliic	2.608	0.0029	0.0044	0.00527	3.997
	•							
7 3	X-10T	Y-ACT	TID					
1.CO	0.0019	0.0039	0°. C043C					
7.CO	-	-0.0009	0.02343					

BASE THICKNESS (IN) 1.502

PPCJECTILE LENGTH (IN) 16.595

71 IS DISTANCE FREM PASE (IN)

72 IS PISTANCE FROM NOSE (IN)

GUN PROJECTIVE INSPECTION DATA 5/38 MK LA-C LCT (3 PROJECTILE B1

INSPECTIEN DATE 9/22/70

```
(-----1NSIOF -----) (----0UTSIOF -----) X-ACT Y-ACT TID DIA X-ACT Y-ACT TID EIA
7.1
     0.0130 0.0102 0.01653
                              2.052
                                    0.0011 0.0011 0.00155
1.90
                                                             4.084
                                                   0.00301
2.50
     0.0067
                    0.01531
                              3.362
                                    0.0030...-0.0002
                                                             5.129
            C. C126
3.90
     0.0090
             C.00 F?
                    0.01146
                              3.470
                                    0.0013 0.0003 0.00133
                                                             5.125
4.00
                                                   0.00272
                                                             4. 104
             0.0056
                    C. C117?
                              3.4C3
                                    0.0022 0.0016
     C. 0103
5.40
     0.00-4
            0.0045
                    C.00788
                              3.714
                                    0.0030 0.0002 0.00301
                                                             4.901)
                                                             4.054
5.30
                                    0.0032
     0.0045 0.0034
                    G. 00742
                              3.831
                                            0.0003 0.0022
                   0.00959
                                                             4.050
7.90
     0.0002 0.0027
                              3. 916
                                    0.0045 0.0010 0.004//
                                                             4.756
     0.0080 0.0000 0.00804
                              3.918
3.50
                                    0.0040 0.0005 0.00403
                                                             4. 150
9,50
     0.0000 -0.0020 0.01000
                              3.321
                                    0.0022 -0.0006 0.00226
     12
                                    0.0070 -0.0001 0.00100
0.0070 0.0002 0.00391
5.75 C.0107 -0.0035 C.01116
                              3.525 0.0070 -0.0001
                                                             4.004
4.75 C.CC93 -C.COFO
                   0.01157
                              3.475
                                                             4.390
                              3.687 0.0032 0.0007 0.00378
3.75 0.0064 -0.0141 0.01543
                                                             4.707
                                                             4.572
3.25 0.0015 -C.0153 C.01530
                              3.567 0.0030 0.0005 0.00304
2.75 -0.0057 -0.0260 0.02664
                                                             4.420
                              2.42° 0.0034 -0.0002 0.00341
                              3.245 0.0027 0.0001 0.00272
                                                             4.277
2.35 -0.0092 -0.0395 0.0300
1.75 -C.0117 -C.0324 C.03475
                              2.910 0.0045 -0.0006 0.00484
                                                             4.094
1.25 -0.0049 -0.0259 0.02634
                              2.594 0.0047 0.0044 0.0043
                                                             1. 35%
13
      X-1(T
            Y-ACT
                     TIT
1.00 0.00% 0.000 0.0066
```

7.00 0.0150 C.C244 C.02C07

BASE THICKNESS (IN) 1.47.

PROJECTILE LENGTH (IN) 16.588

21 IS DISTANCE FROM PASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/38 MK /6-C LOT 69 PROJECTILE 82

INSPECTION DATE 9/1/70

	(TNST	DE)	(OUTS	IDE	1
71	X-ACT	Y-4(T	T[R	DIA	X-AC T	Y-ACT	TIR	CIA
1,90	7. 1100	0.1048	0 02047	2 (11	0.0027	0.0013	2 22205	
2,50	7. 744	-	0.02047		-0.0027		0.00295	4.093
-			7. 62555		-0.0009	-	1.79792	F.124
3,90	. 15/3		0.03063		C.CCC1		7.00014	5.175
4.30	7. 7166	•	0.01694		Ú• t	-	0.00010	4.097
5.00		J. J. 22	J. U1 EE6		-j•ut5C		7.77237	4.941
6.90		- 0.0308	0.01712		-0.0015		0.03170	4.964
7, OU	3. 11 61	-1.0019	0.01522	3.917	0.003	0.)	7.30927	4.059
9,50	7.7122	-0.0041	0.01382	3. 918	-0.1025	-0.1104	0.00253	4.957
J. 30	7. 1164	• U.) CC	0.01747	3.923	0.0005	1,0008	1.11054	4.947
	(INSI	ne	1	(outs	10F	1
72		Y-ACT			•		TIP	
			·				•	
5,75	6. 1124	-1,0125	0.01002	3,931	-1.2004	0.0019	0.10194	4.094
4.75	1. 1128	-1.0124	1.01924	3.663	-0.0010	0.0026	7.31270	4.863
3, 75	0.0150	-1.0060	0. 10) 935	3.735	-0.0019	0.0037	0.00416	4.775
7, 25	- N. 1116	1.0203	C. 2015A		-0.1229	1.002B	7.37403	4.597
	-1. 2364		C. C1864		-0.1221	0.3028	1.10350	4.429
	-5.1772	_	2, 21 1 76	. •	-0.0037	0.0037	0.00476	4.278
	-0.3163	1.1161	0.72284		-1.0015	0.0030	0.00335	4.796
•	- 1, 1201	1.0159	COPER		-0.0027	0.4337	2. 22458	3 925
, ,	- ', '		C.	2.031	-0.112	1) • · ·) 1 /	(• J ,4 7 B) • × • 1
73	X-VCT	Y-ACT	TTP					
1,00	-0.1027	2.0025	0.00375					
	1, 1171		1.11769					
-								

BASE THICKNESS (IN) 1.542

PROJECTILE LENGTH (IN) 14.668

- 71 TS CISTANCE FROM BASE (IN)
- ZZ IS CISTANCE FROM VOSE (IN)
- 72 IS DISTANCE FORM NOSE (IN) FOR THREAD TIR

GUN PROJECTILE INSPECTION DATA

5/38 MK fr-C LCT fo PHOJECTILE B3

INSPECTION PATE 9/24/70

```
(----- INSIDE - - - - - )
                                        (- - - - - CHTS); - - - -
 71
        X-\Lambda CT Y-\Lambda CT
                         TIR
                                  DIA
                                          X-1, T Y-1
                                                           TIN
1.90 -0.0344 -0.0064
                       0.00777
                                  1.074
                                         0.0017 -0.0012 3.000
2.90 -0.0019 -0.0042
                       C. CC4/ L
                                  3.74
                                         0.0010 0.0000
                                                                    . 1 . -
                                                         () . f; ; · · ·
3.50 -0.0044 -2.0385
                       C.CCSF7
                                  3.400
                                         3.000
                                                 0.0010
                                                                    4.10
                                                         1.11
4.90 -0.0062 -0.0117
5.90 -0.0075 -0.0156
                       0.01 124
                                 3.09
                                        0.0006
                                                 0.10.12
                                                         4.00,100
                                                                    1. 1. 7 -
                       C. C1721
                                 7.774
                                         0.0011
                                                 () • '('13
                                                          J. 15, 1 .1
                                                                    · • 164
6.90 -0.0075 -0.0149
                                 4. 236
                       0.01-40
                                         0.00.00
                                                 1). )(1] ..
                                                          1.01 11
                                                                    1 . 11.
7.90 -0.0073 -0.0175
                       C.01505
                                  3.911 0.0007
                                                 0. 1015
                                                         11.
                                                                    1. 14
3.90 -0.0119 -0.0200
                       0.02327
                                  3.014 -0.0000
                                                         0.01:21
                                                  1.001 "
                                                                    1. 76. 7
9.90 -0.0134 -0.0217
                       0.02550
                                  3. 11.
                                         0.0001
                                                 1.1()? :
                                                         7.07 ()
      ( - - - - 1 V 2 1 ) = - - - - 1
                                        (-----)
       X-ACT Y-ACT
                         T 1 +4
                                  DIA
                                         X-101
                                                7-10 T
                                                           7 1
                                                                   1.1
5.75 -C.01 > -C.C.C. A 0.02607
                                 :. 016 -0.0014
                                                 , ()('1 } (), )(; '1
4.75 -0.0114 -0.0192 0.02243
                                 1.894 0.0
1.683 0.0001
                                                 3.3034
                                                         0.16 44
                                                                    •
3.75 -0.0077 -C.013H C.01540
                                                                    .. 11 1
                                                1) -10:4 0.00 .00
3.25 -0.01(5 -0.00F0 0.01320
                                 4. FFC -0.0011
                                                 0.0010 0.00
2.75 -C.CCF> C.CCC7 0.00837
                                 7.421 -11.006
                                                 0.000
                                                         0.00.04
                                                                   11, 1
2.25 -0.0114 -0.0012 C.01144
                                 0.0031 0.00 1.
1.75 -C.0094 C.0010 C.00345
                                                                   1.5
1.25 -0. CO1/
              0.0011
                       0.00311
                                 2.600 -0.0000
                                                 (). )(`~
                                                         13.112 -5
73
       X = \Delta C T
              Y-10 T
                         TIP
              C.3012
1.00
     0.0000
                      G. CC - -
7.00
     0.0344
              C. C121
                      0.03450
BASE THICKNESS (IN)
                       1.4 - 5
```

PREJECTILE LENGTH (191) 16.522

71 IS DISTANCE FROM FASE (IN)

ZZ IS PISTANCE FORM NOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LCT 69 PROJECTILE B4

INSPECTION DATE 9/23/70

	(INS	IDE)	(nuts	IDE	1
7.1	X-ACT	Y-ACT	TIR	DIA	X-AC T	Y-ACT	TIP	CIA
1.90	0.0033	0.0156	C.01595	3.008	0.0012	-0.0018	0.00214	4.991
2.50	0.028	0.0073	C.00782	3.365	0.0020	-0.0008	0.00215	5.122
3.50	0.0044	0.0059	C.00736	2.484	0.0026	-0.0006	0.00267	5.121
4.90	C.0037	0.0015	0.00399	3.605	0.0009	-0.001C	0.00135	4.981
5.50	0.0085	C.C024	C.CORR3	3.72C	900008	-0.0006	0.00100	4.751
6.90	0.0089	-C.00C7	0.00893	3.834	0.0008	-0.0007	0.00106	4.953
7.90	0.0CPC	-C.CO39	0.00969	3.922	0.0005	-0.0006	0.00074	4.950
8.50	0.0094	-0.0060	0.01115	3.924	-0.0	-0.0007	0,00070	4.749
9.90	C.01C3	-C. COP8	C.01355	3.925	0.0004	-0.0007	0.00001	4.950
	(INS	IDF	1	(OUTS	TDE	1
72	X - 7 C L	Y-1CT	TIP	DIA	X-VC T	Y-ACT	917	CIV
5.75	C.0134	-C.C126	C. C1839	3.920	0.0012	-0.0002	0.00122	4.943
4.75	C.012f	-0.C157	C.02C1?	3.89F	0.0024	0.0009	0.00256	4.889
3.75	C. 00 50	-0.0146	0.01575	3.713	0.0011	-0.0001	0.00110	4.703
3.25	0.0033	-C.C114	0.01187	3.588	0.0003	0.0	0.00030	4.579
2.75	C. CO10	-0.0066	0.00668	3.452	0.0013	-0.0002	0.00132	4.439
2.25	0.C014	-C.C054	C.00555	3.283	0.0C17	0.0003	0.00173	4.275
1.75	-C.CO17	-0.0043	0.00462	2.982	0.0014	-0.0004	0.00146	4.094
1.25	C.0002	-0.0072	C. C0720	2.605	0.0023	0.0007	0.00240	3.097
73	X - ACT	Y-ACT	TIP					
1.00	-0.0039	0.0022	0.00442					
7. CO	0.0010	0.0265	0.02652					

BASE THICKNESS (IN) 1.496

PROJECTILE LENGTH (IN) 16. FRS

- ZI IS DISTANCE FROM PASE (IN)
- 22 IS CISTANCE FROM NOSE (IN)
- 73 IS DISTANCE FROM NOSE (IN) FOR THREAD TIR

GUN PREJECTILE INSPECTION DATA

5/38 MK (4-0 LCT AG PROJECTILE 85

INSPECTION DATE 9/24/70

	(INST	DE	1	((11175	!DE	1
21	X-ACT	Y-ACT	110	014	x-1(1	Y-ACT	114	$\Gamma \uparrow \Lambda$
1.30	0.0310	-C.C1C7	0.0:362	2.92C	0.0027	-0.0004	0.10.	4.0 34
7,50		-0.01ee	0.03610	3.346	0.0011	-0.0C05	0.001.1	5.1.71
3.50	0.0566	-C.C124	C • C 3 2 2 P	3.481	-0.0006	-0.000 g	0.00100	5.174
4.50	0.0266	-C.CC92	C. C2 F1 5	3.402	0.0016	-0.0001	0.001~0	4.746
5.50	0.0224	-C•CCc3	0.02425	3.716	0.0024	-0.0006	0.70247	4.656
5.90	0.0212	-C.CO74	0.07252	3.830	0.0027	-0.0013	0.00500	4.50
7.91	0.0170	-0.0055	C.01797	3.017	0.0007	-0.0015	$\mathbf{C} \bullet OCI \Rightarrow$	4.753
8.50	0.0126	-0.0047	C. C1 345	3.920	-0.0010	-0.0012	0.0015	4.050
3.50	0.0114	-0.0032	0.01184	3.070	-0.001 c	-11. 101 F	0.0011	4 • GBO
						-	[1]	
7.7	X-401	Y-ACT	TIP	PIA	X-AC T	Y- AC T	1.15	CTA
		-C.CC14	$C \cdot CC \leq x1$			-0.1617	0.00177	4.4
		-C.00C9	0.00005			-().()()h	0.00072	4 . A (1)
		0.0012	0.00077	3.73 <i>6</i>	-0.0012	-0.0012	0.0017C	4.700
		0.0069	0.00841	•		-0.0015	1.110214	4. 6,70
2.75	-0.C056	0.0111	0.01743	3.4RF	-0.0014	-C • () C I o	0.00000	6.4
2.25	- 0 · 0046	0.00.63	0.00949	3.283	-0.0015	-0.0013	0.001 - 3	4.275
1.75	-C.CO52	- C. COC7	C. CO5 5F	2.543	-0.001c	-0.0024	0.002-0	4.()~?
1.25	-0.0)3E	-C.CO(0	0.00559	2.614	-0.0013	-0.0014	J. (10] 64	. 5 .1
7 3	$X - V \cup I$	A - 7 C 1	TIR					
		-C.0037						
7.CO	-0.0278	-C.0145	0.03135					

BASE THICKNESS (IN) 1.536

PROJECTILE LENGTH (IN) 16.590

71 IS PISTANCE FROM BASE (IN)

Z2 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/39 MK 56-0 LOT TO PROJECTHE BL

INSPECTION DATE 10/13/70

	(INS	INE)	1	OUTS	105	
? 1	X-ACT		TIR	DIA	X-ACT			1
				1714	A- A(,)	Y-ACT	TIP	DIA
1.90	-0,0047	0,0193	0.02043	2.701	0 0	0 0005		
2,90			0.02047			-0.0005	0.00050	4.987
3,90				3. 334		-0.0006	0.00218	5.121
4.90	_ • • • •		0.02127	7.463		-0.0023	0.00332	5.124
5,00			0.01838	3.600		-0.0001	0.00032	4.985
			0.00877	3. 767	-0.0007	-0.0010	0.00122	4.050
7 00	-0.0017		0.00202	3,004	-0.0012	-0.0008	0.00144	4.059
	-0.0019		0.00201	3.994	0.0003	-0.0010	0.00104	4.059
4,90	-0.0025	- J. UO Ca	0.00266	3.994	-0.0008	-0.0010	0.00128	4.960
o, qŋ	-0.0021	-0.0011	0.00237	3.994	-0.0011	-0.0013	0.00170	4.961
							44001 117	
	(INST	ne	1	(01175	IDE)
7?	X-ACT	Y-4CT	TIR	DTA	X-ACT	Y- AC T		•
					A 401	Y-ACT	TIR	DIA
5,75	0.0173	0.0073	0.01978	3.941	0.0004	-0.0001	0.00041	
4,75	0.0207	0.0107	0.02330		-0.0002	-0.0001	0.00041	4.990
3.75		0.0021	0.00856	3.672			0.00054	4.890
1,25	0.0006	0.0040	0.00404		0.0001	-0.0010	0.00100	4.702
	-0.0055	0.0074	0.00922	2.720	-0.0011	-0.0008	0.00136	4.580
	-0.0095	0.0092		3.403	-0.0017	-0.0006	0.00180	4.440
	-0.0202		0.01330		-0.0013		0.00177	4.276
	-0.0202	0.0089	0.02203	2,911		-0.000R	0.00085	4.095
2077	-11.110.90	0.0133	0.01606	2.587	0.0004	-0.0009	0.00098	3.893
• •								
72	X-ACT	Y-ACT	TIR					
	-0.0030	0.0013	0.00327					
7.00	0.0153	0.0139	0.02067					

BASE THICKNESS (IN) 1.623

PROJECTILE LENGTH (IN) 16.712

71 IS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUM PROJECTILE INSPECTION DATA

5/38 MK 66-0 LOT TO PROJECTILE B2

INSPECTION DATE 10/09/70

	(INST	DE)	(OUTS	IDE)
71	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
1.90	-0.0191	-0.0051	0.01977	2.894	0.0020	0.0002	0.00201	4.984
2, 90	-0.0140	0.0084	0.01633	3.360	0.0019	0.0009	0.00210	5.123
	-0.0135		0.01436	3.479	0.0009	0.0006	0.00108	5.128
4.90	-0.0155	-0.0029	0.01577	3.600	-0.0002	-0.0	0.00020	4.983
5.90	-0.0138	-0.0053	0.01478	3.716	0.0007	-0.0001	0.00071	4.951
6.90	-0.0122	-0.0045	0.01300	3.830	-0.0001	-0.0006	0.00061	4.950
7, 90	-0.0120	-0.0019	0.01215	3.925	-0.0003	-0.0004	0.00050	4.950
8.90	-0.0114	-0.0006	0.01142	3.928	-0.0017	-0.0	0.00170	4.948
9.90	-0.0144	-0.0002	0.01440	3.935	-0.0008	-0.0004	0.00089	4.950
	(INST)		OUTS)
12	X-ACT	Y-ACT	TTR	DIA	X-AC T	Y-ACT	TIR	DIA
	-0.0122		0.01243		0.0001		0.00061	4.983
	-0.0130		0.01476		-0.0005		0.00050	4.883
	-0.0058		0.00864		-0.0007		0.00092	4.696
	-0.0030		0.00320		-0.0020		0.00201	4.571
	0.0018		0.00646		-0.0008		0.00081	4.432
2, 25		-0.0095	0.01023	CT/SHOULD STATE	-0.0010		0.00104	4.271
1.75		-0.0137	0.01776		-0.0005		0.00078	4.090
1.25	0.0160	-0.0103	0.01903	2.623	-0.0006	0.0002	0.00063	3.889
		1.10 54.2						
23	X-ACT	Y-ACT	TIR					
	-0.0005		0.00139	1				
7.00	0.0550	-0.0083	0.02373	/				

BASE THICKNESS (IN) 1.546

PROJECTILE LENGTH (IN) 16.662

ZI IS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA 5/38 MK 66-0 LOT 70 PROJECTILE B3 INSPECTION DATE 10/14/70

	(INS	DE	1	(OUTS	IDE)
21	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
1.90	0.0082	-0.0158	0.01780	3.080	0.0003	0.0005	0.00058	4.982
2.90	0.0063	-0.0063	0.00891	3.376	-0.0001	0.0001	0.00014	5.123
3.90	-0.0074	-0.0049	0.00888	3.495	-0.0004	0.0001	0.00041	5.123
4.90	-0.0091	-0.0060	0.01090	3.612	-0.0002	0.0001	0.00022	4.983
5. 90	-0.0126	-0.0038	0.01316	3.725	0.0004	-0.0014	0.00146	4.953
6. 90	-0.0137	-0.0014	0.01377	3.839	0.0011	-0.0007	0.00130	4.952
7. 90	-0.0147	0.0006	0.01471	3.906		-0.0006	0.00134	4.952
8. 90	-0.0155		0.01564			-0.0014	0.00166	4.951
	-0.0206		0.02137	3.913		-0.0014	0.00146	4.953
	(INSI	DE)	(OUTS	IDE)
7.2	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
5.75	-0.0198	0.0083	0.02147	3.919	0.0002	0.0010	0.00102	4.982
4. 75	-0.0167	0.0088	0.01888	3.868	0.0012	-0.0013	0.00177	4.888
3.75	-0.0075	-0.0050	0.00901	3.682	0.0006	-0.0012	0.00134	4.701
3.25	-0.0067	-0.0131	0.01471	3.559	-0.0008	-0.0019	0.00206	4.577
2.75	-0.0039	-0.0159	0.01637	3.419	0.0007	-0.0013	0.00148	4.437
2.25	0.0003	-0.0133	0.01330	3.222	0.0001	-0.0014	0.00140	4.276
1.75	0.0019	-0.0137	0.01383	2.881	0.0016	-0.0009	0.00184	4.095
1.25	-0.0109	-0.0076	0.01329	2.572	0.0011	-0.0015	0.00186	3.895
23	X-ACT	Y-ACT	TIR					
1.00	-0.0016	-0.0	0.00160					
7.00	0.0103	0.0146	0.01787					
BASE	THICKNES	SS (IN)	1.473					
J = .71	THUNNE	,5 (11)	10 413					

PROJECTILE LENGTH (IN) 16.593

Z1 TS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/36 MK 66-0 LOT 70 PROJECTILE B4
INSPECTION DATE 10/13/70

	(INS	IDE	1	(OUTS	IDE)
21	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DTA
1.90	-0.0058	-0.0015	0.00599	3.015	0.0011	-0.0004	0.00117	4.983
2. 90	-0.0014	-0.0019	0.00236	3.372	0.0026	0.0010	0.00279	5.123
3.90	-0.0028	0.0021	0.00350	3.492	0.0025	0.0009	0.00266	5.124
4. 90	-0.0021	0.0038	0.00434	3.606	0.0002	0.0006	0.00063	4.982
5.90	-0.0013	0.0043	0.00449	3.723	-0.0007	0.0005	0.00086	4.959
5. 90	0.0005	0.0036	0.00363	3.839	0.0017	0.0012	0.00208	4.957
7. 90	0.0019	0.0037	0.00416	3.928		0.0010	0.00100	4.956
8. 90	0.0718	0.0033	0.00376	3.933	-0.0011	0.0009	0.00142	4.955
0.90	0.4430	0.9017	0.00818	3.940	-0.0004	0.0010	0.00108	4.956
	(INS	TOE)	(OUTS	1DE)
72	X-ACT	Y-ACT	TTR	DIA	X-ACT	Y-ACT	TIR	DIA
5. 75	0.0141	0.0016	0.01419	3.946	0.0006	0.0013	0.00143	4.983
4.75	0.0166	-0.0005	0.01661	3.892	0.0003	0.0021	0.00212	4.886
3. 75	0.0100	-0.0029	0.01041	3.698	-0.0001	0.0023	0.00230	4.701
3.25	0.0065	-0.0021	0.00693	3.56R	-0.0003	0.0026	0.00262	4.579
2.75	0.0008	-0.0015	0.00170	3.433	-0.0015	0.0025	0.00292	4.437
2.25	-0.0011	-0.0003	0.00114	3.248	-0.0014	0.0023	0.00269	4.277
1.75	-0.0104	-0.0010	0.01045	2.904	-0.0015	0.0020	0.00250	4.095
1.25	-0.0146	-0.0038	0.01509	2.585	-0.0001	0.0020	0.00500	3.895
7.3	X-ACT	Y-ACT	TIR					
1.00	-0.0003	0.0052	0.00521					
7.00	0.0003	0.0030	0.00301					

BASE THICKNESS (IN) 1.508

PROJECTILE LENGTH (IN) 16.662

- 71 IS DISTANCE FROM BASE (IN)
- Z? IS DISTANCE FROM NOSE (IN)
- 73 IS DISTANCE FROM NOSE (IN) FOR THREAD TIR

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 70 PROJECTILE B5
INSPECTION DATE 10/09/70

1.90		(INS	IDE	1		007	tine.	
1. 90	21	X-ACT			DIA	V-ACT			
2.90					0.4	A-AC I	T-AC I	IIK	DTA
2. 90			0.0012	0.00750	3.038	0-0017	0-0004	0.00175	4 004
3.90			-0.0014	0-01526					
4.90	3.90	0. 01 07	0.0011			0.0004			
5.90	4.90	0.0105	0.0024						
6.90	5.90								
7.90	6.90								
8.90	7. 90								4.955
9.90 0.0022 0.0026 0.00341 3.921 -0.0009 0.0022 0.00238 4.95 (8.90								4.954
72 X-ACT Y-ACT TIR DIA X-ACT Y-ACT TIR DIA X-75 0.0027 0.0025 0.0027 3.885 0.0004 0.0027 0.00294 4.88 3.75 -0.0112 0.0010 0.01124 3.691 0.0002 0.0016 0.00161 4.70 3.25 -0.0153 0.0041 0.01584 3.561 0.0 0.0020 0.0020 4.58 2.75 -0.0190 0.0087 0.02990 3.424 -0.0006 0.0026 0.00267 4.44 2.25 -0.0203 0.0118 0.02348 3.239 0.0005 0.0027 0.00275 4.28 1.75 -0.0269 0.0166 0.03161 2.905 0.0002 0.0028 0.00281 4.10 1.25 -0.0206 0.0129 0.02431 2.580 0.0001 0.0024 0.00240 3.90 23 X-ACT Y-ACT TIR									4.955
72 X-ACT Y-ACT TIR DIA X-ACT Y-ACT TIR DIA 5.75 0.0027 0.0025 0.00275 3.928 0.0024 0.0017 0.00294 4.98 4.75 0.0005 0.0001 0.00051 3.885 0.0004 0.0020 0.00204 4.88 3.75 -0.0112 0.0010 0.01124 3.691 0.0002 0.0016 0.00161 4.70 3.25 -0.0153 0.0041 0.01584 3.561 0.0 0.0020 0.0020 4.58 2.75 -0.0190 0.0087 0.02090 3.424 -0.0006 0.0026 0.00267 4.44 2.25 -0.0203 0.0118 0.02348 3.239 0.0005 0.0027 0.00275 4.28 1.75 -0.0269 0.0166 0.03161 2.905 0.0002 0.0028 0.00281 4.10 1.25 -0.0269 0.0129 0.02431 2.580 0.0001 0.0024 0.00240 3.90 73 X-ACT Y-ACT TIR		0.002.2	0.0020	0.00341	3.921	-0.0009	0.0022	0.0023R	4.956
72 X-ACT Y-ACT TIR DIA X-ACT Y-ACT TIR DIA 5.75 0.0027 0.0025 0.00275 3.928 0.0024 0.0017 0.00294 4.98 4.75 0.0005 0.0001 0.00051 3.885 0.0004 0.0020 0.00204 4.88 3.75 -0.0112 0.0010 0.01124 3.691 0.0002 0.0016 0.00161 4.70 3.25 -0.0153 0.0041 0.01584 3.561 0.0 0.0020 0.0020 4.58 2.75 -0.0190 0.0087 0.02090 3.424 -0.0006 0.0026 0.00267 4.44 2.25 -0.0203 0.0118 0.02348 3.239 0.0005 0.0027 0.00275 4.28 1.75 -0.0269 0.0166 0.03161 2.905 0.0002 0.0028 0.00281 4.10 1.25 -0.0206 0.0129 0.02431 2.580 0.0001 0.0024 0.00240 3.90 73 X-ACT Y-ACT TIR		(INS	DE	1	1	MITS	IDE	
5.75	15	X-ACT				•			DIA
4.75	5. 75	0.0027	0.0005	0 00275	2 02 0	0 0004		-	
3.75 -0.0112 0.0010 0.01124 3.691 0.0002 0.0016 0.00161 4.70 3.25 -0.0153 0.0041 0.01584 3.561 0.0 0.0020 0.0020 4.58 2.75 -0.0190 0.0087 0.02090 3.424 -0.0006 0.0026 0.00267 4.44 2.25 -0.0203 0.0118 0.02348 3.239 0.0005 0.0027 0.00275 4.28 1.75 -0.0269 0.0166 0.03161 2.905 0.0002 0.0028 0.00281 4.10 1.25 -0.0206 0.0129 0.02431 2.580 0.0001 0.0024 0.00240 3.90 Z3 X-ACT Y-ACT TIR									4.984
3. 25 -0.0153									4.888
2.75 -0.0190 0.0087 0.02090 3.424 -0.0006 0.0026 0.00267 4.44 2.25 -0.0203 0.0118 0.02348 3.239 0.0005 0.0027 0.00275 4.28 1.75 -0.0269 0.0166 0.03161 2.905 0.0002 0.0028 0.00281 4.10 1.25 -0.0206 0.0129 0.02431 2.580 0.0001 0.0024 0.00240 3.90 Z3 X-ACT Y-ACT TIR								0.00161	4.704
2.25 -0.0203							0.0020	0.00200	4.583
1.75 -0.0269 0.0166 0.03161 2.905 0.0002 0.0028 0.00281 4.10 1.25 -0.0206 0.0129 0.02431 2.580 0.0001 0.0024 0.00240 3.90 Z3 X-ACT Y-ACT TIR			-			-0.0006	0.0026	0.00267	4.443
1.25 -0.0206						0.0005	0.0027	0.00275	4.283
73 X-ACT Y-ACT TIR 1.00 -0.0027 -0.0013 0.00300				_	2.905	0.0002	0.0028	0-00281	4.103
1.00 -0.0027 -0.0013 0.00300	1.25	-0.0206	0.0129	0.02431	2.580	0.0001	0.0024		3.903
	23	X-ACT	Y-ACT	TIR					
	1.00	-0.0027	-0.0013	0.00300					
	7.00								

BASE THICKNESS (IN) 1.486

PREJECTILE LENGTH (IN) 16.590

- 21 IS DISTANCE FROM BASE (IN)
- 72 IS DISTANCE FROM NOSE (IN)
- 23 IS DISTANCE FROM NOSE (IN) FOR THREAD TIR

GUN PROJECTILE INSPECTION DATA 5/38 MK 66-0 LOT 71 PROJECTILE B1 INSPECTION DATE 10/06/70

	(INS!	DE	1	(OUTS	IDE)
21	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DT A
1.90	0.0005	-0.0166	0.01661	2.988	0.0009	0.0003	0.00095	4.982
3. 90	-0.0056	-0.0034	0.00655	3.388	0.0016	0.0007	0.00175	5.121
3.90	-0.0037	-0.0062	0.00722	3.503	0.0004	0.0005	0.00064	5.120
4. 90	0.0052	-0.0084	0.00988	3.613	-0.0005	0.0007	0.00086	4.982
5. 90	0.0046	-0.0097	0.01074	3.731	0.0004	0.0006	0.00072	4.954
6. 90	0.0067	-0.0093	0.01146	3.847	-0.0009	0.0009	0.00127	4.954
7.90	0.0080	-0.0086	0.01175	3.930	0.0010	0.0015	0.00180	4.951
A. 90	0.0066	-0.0092	0.01132	3.932	0.0002	D. 0016	0.00161	4.953
9. 90	0.0082	-0.0101	0.01301	3.940	0.0005	0.0018	0.00187	4.954
	(INSI	ne	1	1	OUTS	INE	1
22	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
5.75	0.0076	-0.0095	0.01217	3.949	0.0012	0.0024	0.00268	4.982
4.75	0.0073	-0.0090	0.01159	3.911	0.0005	0.0015	0.00158	4.884
3. 75	0.0044	-0.0077	0.00887	3.731	0.0003	0.0020	0.00202	4.699
3. 25	0.0068	-0.0058	0.00894	3.611	0.0004	0.0024	0.00243	4.576
2. 75	0.0107	-0.0037	0.01132	3.479	0.0006	0.0032	0.00326	4.435
2. 25	0.0094	-0.0008	0.00943	3.305	-0.0003	0.0029	0.00292	4.274
1.75	0.0067	0.0049	0.00930	2.984	0.0010	0.0029	0.00307	4.094
1.25	0.01 C1	0.0067	0.01212	2.626	0.0006	0.0026	0.00267	3.893
73	X-ACT	Y-ACT	TIR					
1.00	-0.0012	0.0022	0.00251					
7 00	-0 0171	-0 0122	A 02144					

7.00 -0.0171 -0.0133 0.02166

BASE THICKNESS (IN) 1.519 PROJECTILE LENGTH (IN) 16.656

Z1 IS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 71 PROJECTILE 82
INSPECTION DATE 10/08/70

	1	INSI	IDE	1	(OUTS	IDE)
21	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
1.90	-0.0168	0.0068	0.01812	2. 872	-0.0	0.0002	0.00020	4.983
2. 90	-0. 01 05	0.0134	0.01702	3.357	-0.0012	0.0006	0.00134	5.125
3.90	-0.0124	0.0124	0.01754	3.473	-0.0012	0.0022	0.00251	5.123
4.90	-0.0099	0.0138	0.01698	3.594	-0.0027	-0.0014	0.00304	4.983
5.90	-0.0070	0.0128	0.01459	3.708	-0.0024	-0.0005	0.00245	4.958
6. 90	-0.0040	0.0123	0.01293	3.828	-0.0010	-0.0006	0.00117	4.957
7.90	-0.0036	0.0145	0.01494	3.923	-0.0014	-0.0004	0.00146	4.958
9,90	0.0011	0.0130	0.01305	3.932	-0.0026	-0.0003	0.00262	4.957
9. 90	0.0036	0.0144	0.01484	3.941	-0.0024	-0.0010	0.00260	4.957
	(INS	DE	1	(OUTS	IDE	1
72	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-AC T	TTR	DTA
5.75	0.0095	0.0168	0.01930	3.951	-0.0013	-0.0016	Q. 00206	4.984
4.75	0.0119	0.0171	0.02083	3.916	-0.0027	-0.0013	0.00300	4.887
3.75	0.0084	0.0060	0.01032		-0.0034		0.00352	4.700
3.25		-0.002A	0. 00680	3.627	-0.0029	-0.0005	0.00294	4.577
2.75	-0.0002	-0.0127	0.01270	3.495	-0.0042	-0.0014	0.00443	4.436
2.25	-0.0023	-0.0179	0.01805		-0.0032		0.00342	4.276
1.75	-0.0040	-0.0250	0.02532	3.018	-0.0035	-0.0016	0.00385	4.095
1.25	-0.0061	-0.0314	0.03199	2.641	-0.0040	-0.0015	0.00427	3.894
23	X-ACT	Y-ACT	TIR					
1.00	-0.0056	-0.0031	0.00640					
7.00	0.0021	0.0206	0.02071					

BASE THICKNESS (IN) 1.611

PROJECTILE LENGTH (IN) 16.666

Z' IS DISTANCE FROM BASE (IN)

22 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/39 MK 66-0 LOT 71 PROJECTILE B3

INSPECTION DATE 10/09/70

	(INS	IDE	1	(OUTS	IDE	1
21	X-ACT		TIP	DIA	X-ACT	Y-ACT	TIR	DIA
1.90	0.0140	0.0014	0.01407	2.881	-0.0010	-0.0001	0.00100	4.984
2.90	0.0167	-0.0040	0.01717	3.363	0.0001	-0.0011	0.00110	5.124
3.90	0.0178	-0.0015	0.01786	3.481	-0.0016	-0.0016	0.00226	5.123
4. 90	0.0162	-0.0010	0.01623	3.598	-0.0012	-0.0002	0.00122	4.985
5. 90	0.0165	-0.0002	0.01650	3.713	-0.0	-0.0006	0.00060	4.959
6. 90	0.0180	0.0021	0.01812	3.828	-0.0015	-0.0012	0.00192	4.956
7. 90	0.0167	0.0037	0. C1710	3.915	-0.0011	-0.0005	0.00121	4.955
9. 90	0.0148	0.0067	0.01625	3.915	-0.0029	-0.0005	0.00294	4.956
9. 90	0.0159	0.0089	0.01822		-0.0017		0.00173	4.954
	(INS	DE	1	(outs	IDE	1
72	X-ACT		TIR	DIA	X-ACT		TIR	DIA
5. 75	0.0152	0.0093	0.01782	3.932	-0.0019	-0.0013	0.00230	4.984
4. 75	0.0108	0-0097	0.01452		-0.0016		0.00171	4.885
3.75	0.0066	0.0112	0.01300		-0.0026		0.00305	4.699
3. 25	C. 01 04		0.01536		-0.0018		0.00228	4.579
2. 75	0.0146	0.0106	0.01804		-0.0021		0.00258	4.437
2.25	0.0151	0.0106	0.01845		-0.0015		0.00198	4.276
1.75	0.0159	0.0124	0.02016		-0.0008		0.00161	4.095
1.25	0. 0144	0.0112	0.01924		-0.0011		0.00156	3.894
73	X-ACT	Y-ACT	TIR					
1.00	0.0021	0.0007	0.00221					
7.00	0.0226	-0.0120	0.02559					

BASE THICKNESS (IN) 1.593

PROJECTILE LENGTH (IN) 16.655

21 IS DISTANCE FROM BASE (IN)

22 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 71 PROJECTILE 84
INSPECTION DATE 10/12/70

	1	INS	10E)	(nurs	IDE	1
71	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
1.90	-0.0069	0.0078	0.01041	3.028	-0.001.0	-0.0001	0.00100	4.982
2.90	-0.0033	0.0077	0.00838	3.379	0.0009	0.0003	0.00095	5.123
3,90	-0.0043	0.0054	0.00690	3.498	0.0004	0.0003	0.00050	5.121
4.90	-0.0057	0.0073	0.00926	3.616	-0.0015	-0.0002	0.00151	4.983
5.90	-0.0050	0.0070	0.00860	3.733	-0.0002	0.0003	0.00036	4.953
4.90	-0.0021	0.0065	0.00683	3.854	-0.0011	0.0005	0.00121	4.951
7.90	-0.0004	0.0058	0.00581	3.934	-0.0003	-0.0	0.00030	4.952
8. 90	-0.0006	0.0053	0.00593	3.935	-0.0006	0.0006	0.00085	4,950
9.90	0.0032	0.0030	0.00439	3.943	0.0002	0.0012	0.00122	4.952
	(INS	IDE	1	(OUTS	IDE)
72	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DTA
5.75	0.0094	0.0009	0.00944	3.943	-0.0004	0.0011	0.00117	4.983
4.75	0.0069	-0.0012	0.00700	3.891	-0.0018	0.0005	0.00187	4.886
3.75	-0.0005		0.00196	3.780	-0.0017	0.0015	0.00227	4.700
3.25	-0.0053	0.0042	0.00676		-0.0011	0.0016	0.00194	4.577
2.75	-0.0085	0.0091	0.01245	3.505	-0.0015	0.0005	0.00158	4.434
2.23	-0.0137	0.0151	0. 02 03 9	3.249	-0.0017	0.0003	0.00173	4.273
1.75	-0.0236	0.0210	0.03159	2.872	-0.0007	0.0010	0.00122	4.093
1.25	-0.0052	0.0059	0.00786	2.605	-0.0011	0.0015	0.00186	3.893
23	X-4CT	Y-ACT	TIR					
1.00	-0.0024	-0.00C5	0.00245					
7.00	0.0920	-0.0009	0.00219	. 7				

BASE THICKNESS (IN) 1.510

PRCJECTILE LENGTH (IN) 16.647

ZI IS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 71 PROJECTILE 85
INSPECTION DATE 10/09/70

	(INS	IDE	1	(OUTS	IDE	1
11	X-ACT	Y-ACT	TIR	DTA	X-ACT	Y-ACT	TIR	DIA
1.90	-0.0072	0.0075	0.01040	2.987	0.0001	0.0004	0.00041	4.984
2. 90	-0.0063	0.0045	0.00774	3.373	-0.0005	0.0004	0.00064	5.125
3.90	-0.0027	0.0050	0.00568	3.487	-0.0007	0.0006	0.00092	5.123
4.90	0.0006	0.0069	0.00693	3.602	-0.0028	0.0001	0.00280	4.985
5.90	0.0058	0.0083	0.01013	3.718	0.0004	0.0007	0.00081	4.959
5. 90	0.0063	0.0098	0.01165	3.835	-0.0002	0.0016	0.00161	4.958
7.90	0.0073	0.0107	0.01295	3.926	-0.0019	0.0007	0.00202	4.957
8.90	0.0092	0.0116	0.01481	3.928	-0.0005	0.0009	0.00103	4.95R
9.90	0.0087	0.0117	0.01458	3.929	-0.0011	0.0013	0.00170	4.959
	(INST	DE)	(OUTS	IDE	1
22	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
5.75	0.0116	0.0115	0.01633	3.932	-0.0011	0.0011	0.00156	4.983
4. 75	0.0090	0.0089	0.01266	3.892	-0.0001	0.0015	0.00150	4.885
3.75	C. 0103	0.0077	0.01286	3.701	-0.0012	0.0019	0.00225	4.700
3. 25	0.0125	0.0134	0.01833	3.574	-0.0016	0.0016	0.00226	4.577
2.75	0. 0133	0.0146	0.01975	3.434	-0.0018	0.0015	0.00234	4.438
2.25	0.0123	0.0139	0.01856	3.256	-0.0014	0.0016	0.00213	4.271
1.75	0.0100	9. 01.24	0.01593	2.935	-0.0002	0.0009	0.00092	4.092
1.25	0.0098	0.0018	0.00996	2.598	0.0008	0.0021	0.00225	3.890
23	X-ACT	Y-ACT	TIR					
1.00	-0.0020	0.0052	0.00557					
7.00	-0.0088	0.0283	0.02964					

BASE THICKNESS (IN) 1.559

PROJECTILE LENGTH (IN) 16.650

ZI IS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 72 PROJECTILE B1
INSPECTION DATE 10/14/70

	(INS	DE	1	(OUTS	TDE	1
71	X-4CT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
1.90	-0.0112	-0.0037	0.01180	2.949	0.0027	-0.0004	0.00273	4.984
2.90	-0.0053	-0.0087	0.01019	3.368	0.0012	0.0001	0.00120	5.122
3. 90	-0.0116	-0.0092	0.01481	3.488	-0.0	0.0005	0.00050	5.120
4. 90	-0.0148	-0.0085	0.01707	3.604	0.0004	0.0002	0.00045	4.982
5. 90	-0.0172	-0.0060	0.01822	3.722	0.0001	-0.0005	0.00051	4.958
5.90	-0.0176	-0.0030	0.01785	3.832	0.0015	-0.0	0.00150	4.959
7,90	-0.0182	-0.0034	0.01951	3.932	0.0007	-0.0009	0.00114	4.959
R, 90	-0.0182	0.0016	0.01827	3.927	0.0001	-0.0005	0.00051	4.959
0,90	-0.0171	0.0044	0.01766	3.931	-0.0002	-0.9001	0.00022	4.960
	(INS	ne)	(OUTS	IDE	1
72	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DI A
5.75	-0.0142	0.0072	0.01592	3.937	-0.0013	-0.0002	0.00132	4.980
4.75			0.01295	3.902			0.00057	4.889
3.75	-0.0041	0.0073	0.00837	3.720	-0.0013		0.00136	4.704
3.25	-0.0025	0.0126	0.01285	3.596	-0.0028	0.0005	0.00284	4.583
2. 75	0. 00?3		0.01825		-0.0015		0.00153	4.441
2.25			0.01758		-0.0024		0.00242	4.277
1.75			0.02871	2.982	-0.0019		0-00196	4.097
1.25	0.0095	0.0192	0.02142		-0.0012		0.00122	3.897
23	X-ACT	Y-ACT	TIR					
1.00	-0.0069	-0.0028	0.00745					
7.00	-0-0092	-0-0023	0.00948					

7.00 -0.0092 -0.0023 0.00948

BASE THICKNESS (IN) 1.528

PROJECTILE LENGTH (IN) 16.661

ZI IS DISTANCE FROM BASE (IN)

.ZZ IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LOT 72 PROJECTILE B2

INSPECTION DATE 10/08/70

```
(- - - - - INSIDE - -
                                 - 1
                                               - OUTSIDE -
                                                Y-ACT
 71
      X-ACT
              Y-ACT
                        TIR
                                 DIA
                                        X-ACT
                                                         TIR
                                                                  CIA
              0.0169
1.90 -0.0072
                      0.01837
                                2.911
                                       0.0019 -0.0002
                                                       0.00191
                                                                 4.995
2.90 -0.0082
              0.0266
                      0.02784
                                3.365
                                       0.0023 -0.0020
                                                       0.00305
                                                                 5.124
                                3.485
                                                       0.00338
3.90 -0.0075
              0.0206
                      0.02192
                                       0.0032 -0.0011
                                                                 5.124
4. 90 -0.0109
              0.0171
                      0.02028
                                       0.0011 -0.0002
                                                       0.00112
                                                                 4.983
                                3.605
5.90 -0.0097
                                3.717
              0.0129
                      0.01614
                                       0.0010 0.0002
                                                       0.00102
                                                                 4.950
5.90 -0.0088
              0.0114
                      0.01472
                                7,835
                                       0.0014 -0.0001
                                                       9.00140
                                                                 4.960
                                              0.0003
7.90 -0.0104
              0.0077
                      0.01294
                                3. 920
                                       0.0018
                                                       0.00182
                                                                 4.961
                      0.00896
                                3.921
                                                                 4.942
8.90 -0.0075
              0.0049
                                       0.0008 0.0006
                                                       0.00100
9.90 -9.0082 0.0001
                     0.00820
                                3.925
                                       0.0021 0.0009
                                                       0.00225
                                                                 4.963
      (---- INSIDE ----) (---- OUTSIDE -----)
7.2
      X-ACT Y-ACT
                        TIR
                                 DIA
                                        X-ACT
                                                         TIR
                                                                  DIA
                                                Y-ACT
5.75 -0.0080 -0.0038
                     0.00886
                                3.931
                                       0.0012
                                               0.0007
                                                      0.00139
                                                                 4.982
4.75 -0.0080 -0.0039
                      0.00890
                                3.892
                                       0.0007
                                               0.0001
                                                       0.00071
                                                                 4.889
3.75 -0.0025 -0.0033
                      0.00414
                                3.712
                                       0.0023
                                               0.0017
                                                       0.00286
                                                                 4.702
3.25
      0.0025 -0.0042
                      0.00489
                                3.599
                                       0.0010
                                               0.0014
                                                       0.00172
                                                                 4.579
2. 75
      0.0056 -0.0105
                      0.01190
                                3.452
                                       0.0012
                                               0.0010
                                                       0.00156
                                                                 4.435
2.25
                                               0.0019
     0.0092 -0.0142
                      0.01692
                                3.275
                                       0.0018
                                                      0.00262
                                                                 4.274
1.75
     0.0127 -0.0123
                      0.01768
                                2.961
                                       0.0016
                                                      0.00200
                                                                 4.093
                                               0.0012
1.25
     0.0042 -0.0027
                      0.00499
                                2.613
                                       0.0005
                                               0.0019 0.00196
                                                                 3.991
73
       X-ACT
              Y-ACT
                        TIR
```

1.00 -0.0009 0.000! 0.00091 7.00 -0.0236 -0.0040 0.02394

BASE THICKNESS (IN) 1.478

PROJECTILE LENGTH (IN) 16.655

71 IS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GIM PROJECTILE INSPECTION DATA 5/38 MK 66-0 LOT 72 PROJECTILE B3

INSPECTION DATE 10/12/70

```
(- - - - - OUTSIDE - - - - -)
      (---- INSIDE ---- )
21
      X-ACT
                       TIR
                                DIA
                                       X-ACT Y-ACT
                                                        TIR
              Y-ACT
                                                                 DIA
                     0.00760
                                                                4.984
1.90
     0.0064
             0.0041
                               2.875 0.0002 -0.0014 0.00141
2.90 -0.0024
             0.0061
                      0.00656
                               3.352 -0.0006 -0.0020 0.00209
                                                                5.122
3.90 -0.0019
             0. 0047
                               3.473 0.0013 -0.0011 0.00170
                      0.00507
                                                                5.121
4.90
     0.0007
             0.0013
                     0.00149
                               3.591 -0.0019 -0.0014
                                                     0.00236
                                                                4.982
     0.0016 0.0001
5. 90
                     0.00160
                               3.710 -0.0018 -0.0026 0.00316
                                                                4.960
6.90
     0.0022 -0.0013
                               3.825 -0.0011 -0.0018 0.00211
                     0.00256
                                                                4.959
7.90
     0.0068 -0.0029
                                                                4.959
                     0.00739
                               3.920 0.0.
                                             -0.0017
                                                     0.00170
1. 90
     0.0048 -0.0053
                     0.00715
                               3.923 -0.0026 -0.0015 0.00300
                                                                4.959
0, 90
    0.0087 -0.0073
                     0.01136
                               3.929 -0.0029 -0.0020 0.00352
                                                                4.961
      (----- INSIDE - - - - - ) (- - - - OUTSIDE - - -
                                DIA X-ACT Y-ACT
72
      X-ACT
             Y-ACT
                       TIR
                                                        TIR
                                                                 DIA
5, 75
     0.0148 -0.0110 0.01844
                               3.936 -0.0021 -0.0017 0.00270
                                                                4.982
4.75
     0.0117 -0.0133 0.01771
                               3.898 0.0023 0.0
                                                                4.491
                                                      0.00230
2, 75
     0.0045 -0.0110
                     0.01188
                               3.708 -0.0055 -0.0027 0.00613
                                                                4.702
3. 25
     0.0038 -0.0043
                     0.00574
                               3.587 -0.0040 -0.0019 0.00443
                                                                4.580
2.75
     0.0051
             0.0015
                     0.00532
                               3.455 -0.0036 -0.0018 0.00407
                                                                4.437
2.25
     0.0036
             0.0055
                     0.00657
                               3.200 -0.0034 -0.0012 0.00361
                                                                4.273
     0.0015
                                                                4.091
1.75
             7.0117
                     0.01180
                               2.979 -0.0035 -0.0018 0.00394
1.25 -0.0086
                     0. 01 50?
             0.0134
                               2.599 -0.0027 -0.0012 0.00295
                                                                7.R99
73
      X-ACT
              Y-ACT
                       TIR
1,00 -0.0091 -0.0031
```

7.00 -0.0091 -0.0031 0.00961

SASE THICKNESS (IN) 1.540

PROJECTILE LENGTH (IN) 16.660

- 71 IS DISTANCE FROM BASE (IN)
- 22 IS DISTANCE FROM NOSE (IN)
- 72 IS DISTANCE FROM NOSE (IN) FOR THREAD TIR

GUN PROJECTILE INSPECTION DATA 5/38 MK 66-0 LOT 72 PROJECTILE 84 THISPECTION DATE 10/14/70

	1	INS	INE	1	(OUTS	IDE)
71	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
1. 90	-0.0103	-0.0008	0.01033	2.999	-0.0010	-0.0014	0.00172	4.984
2. 90	-0.0178	0.0143	0. 02283	3.375	0.0017	-0.0014	0.00220	5.121
3. 90	-0.0102	0.0049	0.01132	3.496	0.0010	-0.0005	0.00112	5.122
4.90	-0.00A	0.0037	0.00936	3.609	0.0003	-0.0005	0.00058	4.984
5. 90	-0.0055	0.0022	0.00592	3.725	0.0011	-0.0009	0.00142	4.953
4.90	-0.0034	0.0040	0.00525	3.839	0.0025	-0.0006	-0.00257	4.952
7, 90	-0.0019		0.00381	3.925		-0.0002	0.00122	4.952
8. 90		0.0022	0.00222	3.925	0.0010	THE RESERVE ASSESSMENT	0.00102	4.951
9,90	0.0009	0.0027	0.00282	3.925	0.0005	-0.0002	0.00054	4.951
	(INS	IDE	1	(outs	10F)
1,3	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
5.75	0.0065	0.0017	0.00672	3.926	0.0014	0.0007	0.00157	4.982
4. 75	0.0041	0.0009	0.00420	3.877	0.0015	0.0016	0.00219	4.881
3. 75	0.0027	-0.0007	0.00279	3.721		0.0017	0.00170	4.694
3.25	-0.0023		0.00325	3.588	-0.0006	0.0012	0.00134	4.573
7.74	-0.0034	0.0062	0.00717	3.425		0.0012	0.00126	4.431
2.25	-0.0050		0.00707	3.185	0.0	0.0010	0.00100	4.269
	-0.0125	0.0051	0-01350	2.806	0.0005	0.0011	0.00121	4.089
1.25	-0.0122		0.01330	2.571	0.0006	0.0012	0.00134	3.888
23	X-4CT	Y-ACT	TIR					
1.00	-0.0002	0.0022	0.00221					

7.00 0.0010 0.0007 0.00122

BASE THICKNESS (IN) 1.523 PROJECTILE LENGTH (IN) 14.656

21 IS DISTANCE FROM BASE (IN)

22 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LOT 72 PROJECTILE B5

INSPECTION DATE 10/06/70

	(INS	IDE)	(OUTS	IDE)
71	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
1,90	-0.0068	-0.0023	0.00718	2.960	0.0024	-0.0004	0.00243	4.985
2. 90	0. 1046	0.0005	0.00464	3.368	0.0022	0.0001	0.00220	5.124
3.90	-0.0038	0.0001	0.00380	3.482	0.0028	-0.0005	0.00284	5.125
4.90	-0.0062	-0.0012	0.00632	3.597	-0.0013	-0.0002	0.00132	4.982
5. 90	-0.0054	-0.0023	0.00587	3.714		0.0005	0.00064	4.963
5. 90	-0.0065	-0.0037	0.00748	3.830	0.0014	0.0004	0.00146	4.965
7. 90	-0.0043	-0.0034	0.00548	3.925	0.0006	0.0001	0.00061	4.964
9.90	-0.0072	-0.0039	0.00R19	3.926	-0.0001	0.0003	0.00032	4.965
9.90	-0.0097	-0.0063	0.01074	3.935	-0.0003	0.0003	0.00042	4.966
	(INS	IDE	}	(OUTS	TDE)
13	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
5.75	-0.0051	-0.0084	0.00983	3.938	-0.0001	0.0006	0.00061	4.981
4.75	-0.0034	-0.0061	0.00698	3.89?	-0.0004	0.0014	0.00146	4.894
	-0.0088		0.00884	3.759	0.0001	0.0019	0.00190	4.706
3.25	-0.0081	0.0045	0.00927	3.638	0.0	0.0012	0.00120	4.584
2.75	-0.0075	0.0059	0.01242	3.480	-0.0013	0.0011	0.00170	4.444
2, 25	-0.0135	0.0130	0.01874	3.243	-0.0007	0.0009	0.00114	4.281
1 . 75	-0.0206	0.0138	0.02480	2.869	0.0002	0.0019	0.00191	4.098
1.25	0.0017	0.0075	0.00769	2.588		0.0012	0.00170	3.895
23	X-ACT	Y-ACT	TIR					
1.00	-0.0045	0.0096	0.01060	,				
7.00	0.0124	0.0200	0.02353					

BASE THICKNESS (IN) 1.493

PROJECTILE LENGTH (IN) 16.660

ZI IS DISTANLE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 73 PROJECTILE B1
INSPECTION DATE 10/05/70

		WIE TOND						
	(INS	TDE	1	(1DE)
21	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-AC T	TIR	DT A
1.90	-0.0053	0.0060	0.00801	2.938	-0.0004	0.0013	0.00136	4.983
2.90	-0.0031	0.0066	0.00729	3.372	0.0005	0.0013	0.00139	5.125
3.90	-0.0052	0.0073	0.00896	3.493	0.0009	0.0019	0.00210	5.124
4.90	-0.0064	0.00 41	0.00818	3.608	-0.0004	0.0022	0.00224	4.981
5.90	-0.0071	0.0065	0.00963	3.721	-0.0001	-0.0003	0.00032	4.955
4.90	-0.0024	0.0079	0.00826	3.839	0.0025	0.0004	0.00253	4.956
7.90	-0.0033	0.0083	0.00893	3.927	0.0001	0.0	0.00010	4.954
9. 90	-0.0043	0.0092	0.01016	3.927	0.0004	0.0015	0.00155	4.954
9.90	-0.0033	0.0091	0.00968	3.931	0.0009	0.0019	0.00210	4.955
	(INS	TOE	1	(OUTS	IDE)
22	X-ACT	Y-ACT	TIR	DTA	X-ACT	Y-ACT	TIR	DIA
5.75	-0.0040	0.0083	0.00921	3.938	0.0027	0.0024	0.00361	4.984
4.75	-0.0015	0.0106	0.01071	3.902	0.0023	0.0030	0.00378	4.884
3.75	-0.0022	0.0167	0.01684	3.761	0.0012	0.0031	0.00332	4.698
3. 25	-0.0024	0.0158	0.01598	3.644	-0.0008	0.0027	0.00282	4.578
2. 75	-0.0019	0.0125	0.01264	3.489	0.0014	0.0033	0.00358	4.435
2. 25	-0.0025	0.0137	0.01393	3.243	0.0018	0.0036	0.00402	4.274
1.75	0.0015	0.0141	0.01418	2.865	0.0012	0.0044	0.00456	4.092
1.25	0.0031	0.0028	0.00418	2.585	0.0017	0.0045	0.00481	3.891
73	X-ACT	Y-ACT	TIR					
1.00	-0.0004	0.0021	0.00214					
7.00	0.0059	-0.0084	0.01026					

PROJECTILE LENGTH (IN) /6.656

ZI TS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 73 PROJECTILE B2
INSPECTION DATE 10/15/70

	(INST	ne)	(DUTS	IDE	1
21	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
1 - 90	0.0045	0.0118	0.01263	2.979	0.001 B	0.0021	0.00277	4.982
2.90	-0.CO39	0.0095	0.01027	3.380	0.0010	0.0016	0.00189	5.123
3.90	-0.0020	0.0109	0.01108	3.493	0.0009	0.0017	0.00192	5.122
4.90	0.0023	0.01 C7	0.01094	3.609	-0.0022	0.0026	0.00341	4.983
5.90	0.0026	0.0104	0.01072	3.722	-0.0009	0.0028	0.00294	4.950
6. 90	0.0054	0.0121	0.01325	3.839	-0.0008	0.0023	0.00244	4.960
7.90	0.0060	0.0102	0.01183	3.928	-0.0030	0.0028	0.00410	4.959
8.90	0.0036	0.0093	0.00997	3.935	-0.0022	0.0031	0.00380	4.95R
9.90	0.0042	0.0075	0.00860	3.942	-0.0033	0.0031	0.00453	4.959
	(INSI	DE	1	(OUTS	IDE	1
Z 2	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
5.75	0.0039	0.0053	0.00658	3.945	-0.0031	0.0028	0.00418	4.983
4.75	0.0042	0.0019	0.00461	3.896	-0.0025	0.0035	0.00430	4.889
3.75	0.0038	-0.0019	0.00425	3.766	-0.0034	0.0035	0.00488	4.704
3.25	-0.0012	0.0013	0.00177	3.646	-0.0040	0.0042	0.00580	4.583
2.75	-0.0033	0.0044	0.00550	3.492	-0.0036	0.0039	0.00531	4.443
2.25	-0.0034	0.0049	0.00596	3.261	-0.0039	0.0039	0.00552	4.282
1.75	-0.0070	0.0055	0.00890	2.895	-0.0037	0.0040	0.00545	4.102
1.25	-0.0177	0.0015	0.01776	2.583	-0.0031	0.0042	0.00522	3.901
73	X-ACT	Y-ACT	TIR					
	-0.0105	0.0045	0.01142					
7.00	-0.0183	0.0048	0.01892					

BASE THICKNESS (IN) 1.547

PROJECTILE LENGTH (IN) 16.664

Z1 IS DISTANCE FROM BASE (IN)

ZZ IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 73 PROJECTILE 83
INSPECTION DATE 10/15/70

	(INST	DE	1	(OUTS	IDE)
7.1	X-ACT		TIR	DIA	X-AC T	Y-ACT	TIR	DIA
1.90	-0.0048	0.0092	0.01038		0.0007		0.00114	4.981
2.90	-0.0091	-0.0072	0.01160	3.390	-0.0009	-0.0010	0.00135	5.123
3.90	-0.0070	0.0008	0.00705	3.507	0.0006	-0.0003	0.00067	5.123
4.90	-0.0033	0.0044	0.00550	3.621	-0.0005	-0.0009	0.00103	4.983
5.90	-C.0001	0.0082	0.00820	3.734	-0.0021	-0.0005	0.00216	4.957
6.90	0.0015	0.0077	0.00784	3.852	-0.0013	-0.0008	0.00153	4.956
7. 90	0.0013	0.0090	0.00909	3.940	-0.0028	-0.0007	0.00289	4.958
8. 90	0.0008	0.0112	0.01123	3.946	-0.0032	-0.0006	0.00326	4.957
9.90	0.0050	0.0133	0.01421	3.953	-0.0044	-0.0010	0.00451	4.958
	(INSI	DE	1	(OUTS	IDE)
22	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
5.75	0.0090	0.0139	0.01656	3.954	-0.0010	-0.0013	0.00164	4.981
4.75	0.0092	0.0111	0.01442	3.905	-0.0007	-0.0016	0.00175	4.888
3. 75	0.0070	0.0064	0.00949	3.777	-0.0015	-0.0012	0.00192	4.703
3. 25	0.0005	0.0018	0.00187	3.660	-0.0026	-0.0011	0.00282	4.581
2.75	-0.0054	-0.0015	0.00657	3.504	-0.0035	-0.0012	0.00370	4.439
2.25	-0.0115	-0.0059	0.01293	3.267	-0.0033	-0.0016	0.00367	4.275
1.75	-0.0151	-0.0093	0.01773	2.896	-0.0026	-0.0018	0.00316	4.102
1.25	-0.0039	-0.01 C8	0.01148	2.606	-0.0028	-0.0021	0.00350	3.903
73	X-ACT	Y-ACT	TIR		•			
1.00	-0.0066	0.0016	0.00679					
7.00	-0.0136	0.0246	0.02911					

BASE THICKNESS (IN) 1.498

PROJECTILE LENGTH (IN) /6.665

ZI IS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 73 PROJECTILE B4
INSPECTION DATE 10/07/70

	(INSI	DE)	(OUTS	IDE)
71	X-ACT	Y-ACY	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
		0.0040	0.01200	2 01/	0 0005	• •	0.0050	4 002
1.90	0.0123	0.0048	0.01320	3.014			0.00050	4.982
2.90	0.0	0.0003	0.00030		-0.0025		0.00287	5.123
3.90	0.0043		0.00449		-0.0057		0.00579	5.125
4.90	0.0013		0.00191	3.604	-0.0028	-0.0002	0.00281	4.983
5.90	0.0004	0.0024	0.00243	3.720	-0.0019	-0.0004	0.00194	4.958
6. 90	-0.0001	0.0040	0.00400	3.836	-0.0008	-0.0009	0.00120	4.961
7.90	0.0022	0.0041	0.00465	3.928	-0.0019	-0.0004	0.00194	4.958
8.90	-0.0023		0.00661	3.932	-0.0028	-0.0007	0.00289	4.957
9.90	-0.0022	0.0069	0.00724		-0.0032		0.00353	4.959
	(INST	DE	1	(OUTS	10E)
72	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
5. 75	-0.0052	0.0063	0.00817	3,943	-0.0052	0.0063	0.00817	4.982
	-0.00 34		0.00707		-0.0034	0.0062	0.00707	4.890
	-0.0038		0.00753		-0.0038	0.0065	0.00753	4.702
3.25	-0.0006	0.0078	0.00782		-0.0006	0.0078	0.00782	4.581
	4 7 1 1 1 1			41.				4.438
2.75	0.0044	0.0098	0.01074	3.447		0.0096	0.01056	
2. 25	0.0076	0.0100	0.01256	3.235		0.0100	0.01256	4.279
1.75	0.0021	0.0167	0.01090	2.876		0.0107	0.01090	4.094
1.25	-0.0153	-0.0088	0.01765	2.574	-0.0153	-0.008R	0.01765	3.894
23	X-ACT	Y-ACT	TIP					
1.00	-0.0081	-0.0001	0.00810					

7,90 -0.0064 -0.0061 0.00810

PROJECTILE LENGTH (IN) 16.656

ZI IS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LOT 73 PROJECTILE 85

INSPECTION DATE 10/08/70

	(INSI	DE	1	(DUTS	IDE	1
71	X-ACT	Y-ACT	TIR	DIA		Y-AC T	TIR	DIA
1.90	-0.0015	-0.0029	0.00326	2.992	0.0014	0.0010	0.00172	4.982
2.90		-0.0107	0.01279	3.36R	0.0011	0.0017	0.00202	5.124
3.90	-0.0004	-0.0161	0.C1610	3.484	0.0002	0.0018	0.00181	5.123
	-0.0040		0.02197	3.603	-0.0003	0.0017	0.00173	4.980
5.90	-0.0001	-0.0207	0.02070	3.716	0.0009	0.0017	0.00192	4.955
6.90	-0.0015	-0.0184	0.01846	3.928	0.0020	0.0029	0.00352	4.954
7. 90	-0.0025	-0.0175	0.01768	3.905	0.0015	0.0023	0.00275	4.956
8.90	-0.0030	-0.0195	0.01973	3.907	0.0006	0.0029	0.00296	4.957
9.90	-0.0039	-0.0186	0.01900	3.908	0.0002	0.0031	0.00311	4.95R
	(INST	DE	1	(IDE	1
72	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-AC T	TIR	DIA
	-0.0026		0.01690	3.911	0.0010	0.0032	0.00335	4.983
	-0.0015		0.01517	3.877	0.0015	0.0030	0.00335	4.884
3.75	-0.0025		0.00762	3.688	-0.0002	0.0027	0.00271	4.699
3.25	0.0024		0.00278	3.563	0.0006	0.0041	0.00414	4.576
2.75	0.0069		0.00852	3.429	0.0005	0.0035	0.00354	4.433
2.25	0.0105	0.0100	0.01450	3.249	0.0007	0.0040	0.00406	4.270
1.75	0.0150	0.0148	0.02107	2.949	0.0005	0.0034	0.00344	4.089
1.25	0.0054	0.0228	0.02343	2.593	0.0004	0.0038	0.00382	3.888
			22-16					
23	X-ACT	Y-ACT	TIP					
	-0.0022	0.0036	0.00422					
7.00	-0.0038	-0.0162	0.01664					

BASE THICKNESS (IN) 1.498

PROJECTILE LENGTH (IN) 16.660

ZI IS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LOT 74 PROJECTILE B1

INSPECTION DATE 10/14/70

	(INST	DE)	(outs	IDE)
71	X-ACT	•	TIR	DTA	•		TIR	DIA
	-0.0033	0.0023	0.00402	2.963		-0.0001	0.00022	4.982
	-0.0111	0.0044	0.01194	3.372		-0.0007	0.00081	5.127
	-0.0074	0.0062	0.00965	3.491			0.00121	5.123
	-0.0075	0.0047	0.00885		-0.0014		0.00143	4.983
_	-0.0068	0.0042	0.00799	3.719	-0.0017	-0.0006	0.00180	4.956
5.90	-0.0025	0.0061	0.00659	3.837	0.0	-0.0009	0.00090	4.954
7.90	-C. 00C2	0.0052	0.00520	3.920	0.0003	0.0006	0.00067	4.956
9.90	-0.0036	0.0059	0.00691	3.922	-0.0005	-0.0002	0.00054	4.954
9.90	-0.0028	0.0032	0.00425	3.928	-0.0017	-0.0004	0.00175	4.955
	(INST	DE)	(QUTS	IDE)
72	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
5.75	0.0016	0-0029	0.00331	3.937	-0.0007	-0.0	0.00070	4.982
4.75	0.0010	0.0008	0.00128	3.899	-0.0007	0.0	0.00070	4.8B3
3.75	-0.0036	0.0024	0.00433	3.752	-0.0017	-0.0006	0.00180	4.698
3.25	-0-0019	0.0066	0.00697	3.639	-0.0014	-0.0005	0.00149	4.576
2.75	0. CO 31	0.0083	0.00886		-0.0022		0.00220	4.434
2, 25	0.0008	0.0115	0.01153		-0.0023		0.00231	4.273
1.75	-0.0010	0.0129	0.01294		-0.0025		0.00266	4.091
1.25	0.0013	0-0189	0.01894		-0.0007		0.00081	3.890
	00001.		0.01.174	2.0 (1.7.	0.000	0.0004	0.00001	10000
23	X-ACT	Y-ACT	TIR					
1.00	-9.0058	0.0009	0.00587					
	-0.0064	0.0021	0.00674					

BASE THICKNESS (IN) 1.535

PROJECTILE LENGTH (IN) 16.680

ZI IS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LOT 74 PROJECTILE B2

INSPECTION DATE 10/13/70

	(INSI	DE)	(OUTS	IDE)
71	X-ACT	Y-ACT	TIR	DIA	X-ACT		TIR	DIA
1.90	-0.0017	-0.0010	0.00197	2.960	0.0002	-0.0001	0.00022	4.982
2.90	-0.0026	-0.0016	0.00305	3.378	0.0030	0.0009	0.00313	5.121
3.90	-0.0040	0.0015	0.00427	3.493	0.0032	0.0019	0.00372	5.125
4.90	-0.0053	0.0033	0.00624	3.607	0.0020	0.0002	0.00201	4.983
5. 90	-0.0052	0.0012	0.00534	3.721	0.0019	0.0017	0.00255	4.958
6. 90	-0.0031	0.0009	0.00323	3.839	0.0037	0.0013	0.00392	4.958
7. 90	-0.0042	0.0002	0.00420	3.93?	0.0035	0.0015	0.00381	4.959
A. 90	-0.0057	-0.0009	0.00577	3.933	0.0021	0.0011	0.00237	4.957
	-0.0049		0.00580	3.938	0.0023	0.0013	0.00264	4.957
	(INSI		1	(1
22	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-AC T	TIR	DIA
5. 75	-0.0040	-0.0045	0.00602	3.943	0.0037	0.0001	0.00370	4.983
4.75	-0.0011	-0.0049	0.00502	3.899	0.0026	0.0009	0.00275	4.889
3.75	0.0032	-9.0024	0.00400	3.744	0.0036	0.0014	0.00386	4.704
3.25	0.0062	-0.0047	0.00778	3.616	0.0033	0.0020	0.00386	4.583
2. 75	0.0080	-0.0060	0.01000	3.459	0.0023	0.0016	0.00280	4.441
2. 25	0.0105	-0.0036	0.01110	3.223	0.0025	0.0020	0.00320	4.282
1.75	0.0094	0.0029	0.00981	2.854	0.0027	0.0014	0.00304	4.101
1.25	C. 0161	-0.01C7	0.01933	2.570	0.0030	0.0011	0.00320	3.901
73	X-ACT	Y-ACT	TIR					
1.00	-0.0008	-0.0010	0.00128					
7.00	0.0034	0.0019	0.00385					

BASE THICKNESS (IN) 1.575

PROJECTILE LENGTH (IN) 16.662

71 IS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 74 PROJECTILE 83

INSPECTION DATE 10/13/70

	(INST	DE)	(OUTS	IDE)
71	X-ACT		TIR		-		TTR	DT 4
1.90	-0.0047	0.0171	0.01773	2.851	0.0014	0.0002	0.00141	4.982
2.90	-0.0053	0.0125	n. 01358	3.379	0.0034	0.0017	0.00380	5.124
3.90	-0.0075	0.0116	0.01381	3.493	0.0020	0.0013	0.00239	5.124
4.90	-0.0118	0.0051	0.01490	3.607	-0.0007	0.0012	0.00139	4.982
5, 90	-0.0131	0.0055	0.01421	3.723	-0.0003	0.0012	0.00124	4.959
5.90	-0.0153	0.00 25	0.01550	3.840	0.0019	0.0020	0.00276	4.959
7. 90	-0.0145	0.0012	0.01455	3.927	-0.0003	0.0024	0.00242	4.960
A. 90	-0.0176	-0.0	0.01760		-0.0004	0.0021	0.00214	4.956
9.90	-0.0187	-0.0010	0.01873		-0.0006	0.0023	0.00238	4.956
	(INSI	DE)	(OUTS	IDE	1
72	X-ACT	Y-ACT	TIR	DTA	X-ACT	Y-ACT	TIR	DIA
5. 75	-0.0173	-0.0015	0.01736	3.937	-0.0004	0.0024	0.00243	4.981
4. 75	-0.0155	-0.0017	0.01559	3.911	0.0007	0.0035	0.00357	4.888
	-0.0073		0.00762		-0.0012	0.0039	0.00408	4.701
3.25	-0.0011	-0.0063	0.00640	3.592	-0.0013	0.0038	0.00402	4.581
2. 75	0.0026	-0.0050	0.00937	3.457	-0.0018	0.0034	0.00385	4.439
2. 25	0.0063	-0.0083	0.01042	3.290	-0.0008	0.0038	0.00388	4.278
1.75	0.0112	-0.0062	0.01280	2.994	-0.0008	0.0038	0.00388	4.098
1.25	0.0087	-0.0043	0.00970	2.626	-0.0002	0.0041	0.00410	3.897
73	X-ACT	Y-ACT	TIR					
1.00	-0.0024	0.0078	0.00816					
7.00	-0.0054	0.0185	0.01927					

BASE THICKNESS (IN) 1.618

PROJECTILE LENGTH (IN) 15.681

Z! IS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA 5/38 MK 66-0 LOT 74 PROJECTILE 84

INSPECTION DATE 10/14/70

	1	INS	DE		1	OUTS	IDE)
7.1	X-ACT		TIR				TIR	DIA
<i>t.</i> 1	X-ACT	Y-ACT		DIA	A-AC I	T-AC	114	OI W
1.90	0.0038	-0.0062	0.00727	3.006	0.0012	-0.0014	0.00184	4.982
2.90	0.0083	-0.0078	0.01139	3.382	0.0010	-0.0002	0.00102	5.124
3.90		-0.0095	0.00965	3.500		0.0006	0.00143	5.124
4. 90	0.0006	-0.0101	0.01012		-0.0015		0.00150	4.984
5.90		-0.0093	0.00932	3.732		-0-0001	0.00091	4.959
6.90		-0.0104	0.01077	3.854		0.0004	0.00089	4.958
7. 90	-0.0011	The state of the s	0.01086	3.936	0.0015	-0-0004	0.00155	4.957
9.90	-0.0037	-0.0114	0.01199	3.940	-0.0005	-0.0002	0.00054	4.957
9.90	-0.0050	-0.01C7	0.01181		-0.0004		0.00040	4.956
	(INST	DE	1	(OUTS	IDE)
2.2	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
5. 75	-0.0099	-0.0116	0.01525	3.950	-0.0003	0.0004	0.00050	4.984
4.75	-0.0077	-0.0093	0.01207	3.896	-0.0004	0.0001	0.00041	4.885
3.75	-0.0081	-0.0066	0.01045	3.709	-0.0010	0.0006	0.00117	4.699
3.25	-0.0042	-0.0065	0.00774	3.591	-0.0010	0.0003	0.00104	4.578
2.75	0.0025	-0.0057	0.00622	3.454	-0.0012	-0.0001	0.00120	4.436
2.25	0.0075	-0.0046	0.00880	3.275	-0.0003	0.0005	0.00058	4.276
1.75	0.0101	-0.0012	0.01017	2.934	0.0002	-0.0001	0.00022	4.095
1.25	0.0037	-0.0054	0.00655	2.613	0.0006	0.0001	0.00061	3.894
_11			2.5	•				
23	X-ACT	Y-ACT	TIR					
1.00	-0.0028	-0.0015	0.00918					
-	-0.0019	0.0005	0.00196					
		.,, .,	2000,0					

Base thickness 1.557 Longth 16.665

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LOT 74 PROJECTILE 85

INSPECTION DATE 10/13/70

	(INS	DF	1	1	outs	IDF)
7.1	X-ACT		TIR	DIA	X-ACT		TIR	DIA
1.90	-0.0065	-0.0243	0.02515	2.866	0.0001	-0.0005	0.00051	4.984
2.90	0.0036	-0.0149	0.01533	3.363	0.0007	-0.0015	0.00166	5.124
3.90	0.0009	-0.0141	0.01413	3.477	0.0013	-0.0007	0.00148	5.122
4.90	-0.0047	-0.0169	0.01754	3.602	0.0002	0.0006	0.00063	4.982
5.90	0.0059	-0.0156	0.01668	3.711	0.0004	0.0001	0.00041	4.952
6.90	0.0072	-0.0164	0.01791	3.831	0.0013	-0.0012	0.00177	4.950
7.90	0.0094	-0.0154	0.01 904	3.925	0.0003	-0.0003	0.00042	4.950
9.90	0.0072	-0.0156	0.01718	3.930	-0.0	0.0003	0.00030	4.951
9.90	0.0084	-0.0172	0.01914	3.936	-0.0013	0.0002	0.00132	4.951
	(INST	DE)	(OUTS	10E	1
72	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DTA
5.75	0.0094	-0.0202	0.02229	3.942	0.0006	0.0006	0.00085	4.984
4.75	0.0086	-0.0157	0.02150	3.903	0.0007	0.0013	0.00148	4.884
3.75	0.0068	-0.0080	0.01050	3.721	-0.0003	0.0015	0.00153	4.696
1.25	0.0100	0.0023	0.01114	3.599	-0.0009	0.0010	0.00135	4.572
2. 75	0.0153	0.0136	0.02047	3.464	-0.0002	0.0012	0.00122	4.431
2.25	0.0210		0.02866	3.293	-0.0	0.0016	0.00160	4.269
1.75	0.0238	0.0273	0.03622	2.989	-0.0004	0.0013	0.00136	4.088
1.25	0. 01 37	0.9247	0.02824	2.620	0.0014	0.0020	0.00244	3.890
7.3	X-ACT	Y-ACT	TIR					
1.00	-0.0018	0.0026	0.00316					
7.00	-0.0007	0.0028	0.00238					
Base	thickne	255 1.57	/					
Leur	th 16.6	58						

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LOT 75 PROJECTILE RI

INSPECTION PATE 11/03/70

	(TAST	DE	1	(0015	IDF)
7.1							112	DTA
1.50	C. ngac	0.0036	0.01053	3.005	0.000?	-0.0007	0.00073	4.99?
2.90	C. C1 4F	-0.0054	C. C1 547	3.3A7	0.0001	-0.0024	0.00240	5.124
3.90	P. 0060	-0.0029	0.00666	7.503	-0.0C24	-0.0023	0.00410	5.126
4. 40	c. 0021	-0.0007	0.00321	3.616	-0.0027	-0.0005	0.00275	4.004
5.90	0. 0017	-C.0013	0.00214	3.731	-0.0023	-0.0009	0.00247	4.950
5. 90	0.0071	-0.0020	0.00250	3.849	-0.0002	-0.0004	0.00045	4.054
7. 90	0.0007	-C.C041	0.00416	3. 525	0.0010	-0.0004	0.00109	4.057
8.00	-0.0024	-0.0026	0.00368	3.029	0.0011	0.0004	0.00117	4,050
9.00	-0.0024	-0.0022	0.00326	3.935	-0.0012	-0.1006	0.00134	4.059
	(INST	UE	1	(OUTS	Int)
7.2	X-1CT	Y-107	TTP	DTA	X-VC L	Y- 10, T	TIP	r 1 A
5.76	-0.0045	-0.0016	0.00474	2,041	-0.0001	-0,0004	0.00041	4,995
4.75	-0.0040	-0.3164	0.00404	3.294	-0.0004	-0.0002	9.00045	4.25.3
7 . 75	C. 0015	-0.0016	0.00212	3.695	-C. 0005	-0.0007	0.000 24	4.70?
3.25	-0.0114	-0.0047	0.00400	7. 543	-0.0005	-0.0002	0.00054	4.531
2.75	-0. 775	- C. CO7/	0.00544	7.407	0.0001	-0.0003	0.000000	4.441
2. 26	C. (')44	-0.0080	0.0000	3.224	-0.0007	0.0001	0.00071	4. 77
1.75	-0.0377	-0.0005	().creas	2.902	-0.0003	-0.0009	0.00109	4.775
1.25	0.0040	0.0057	0.00231	2.57?	-0.0004	-0.0001	0.00041	1,094
7 2	Y-107	Y-107	TIP					
1.90	-9.3077	0.0029	0.00773					
7.00	-4.9001	r. no en	נינגטטיט					
PASE	THICKNIC	(NI) 2	1.615					
عال دو	CTILE 15	NOTH (IN	1 14.462					

71 IS DISTANCE FROM BASE (IN)

15 12 DISTANCE EBEN MUZE (141)

NIN PROJECTILE INSPECTION DATA

5/38 MK 46-C LOT 75 PROJECTILE H2

INSPECTION DATE 10/27/70

	35.71E.		05		2640	0.176	105	
Z 1	X-ACT		TIR	DIA		OUT	TIR	CIA
1.90	0.0053	0.0111	0.01449	3. C27	0-0004	-0.0001	0.00041	4.081
3.00	0.0072		G-01047	3.774	0.0012	0.0000	0.00150	5.125
1.99	0.0034		0.00581	3.494	0.0012	0.0002	2.00122	5.125
4.00	-	-0.0006	0.00623	3.6C2	0.001 C	0.2021	0.00100	4.092
3.90	0.0052		C. C0 0 PO	3.721			0.00073	4.050
5.90		-0.0071	0.00923	3.834	0.0017		0.00153	4.047
7. 90		-C. CCET		3. 923	0.0004	0.0001	0.00041	4.962
9. 00		-0.0117	G.01276	3, 525	0.0008	0.0007	0.00106	4.060
7.50		-C.0123	0.01426	3.437	-0.0001	0.0001	0.00014	4.963
	1	INST	nr	1	1	01175	105	1
7 7	X-SCT	-	TTR	TA		Y- 40. T	TTP	CIA
5.75	(.0)50	-0.0154	0.01613	3.938	0.0009	0.2003	0.9000=	4.094
4.75		-C. C1 13	0.01102	3. 204		-0.0004	0.00134	4.877
3.75		-0.0063	0.00711		-0-0005	-	0.00050	4.707
3.75		-0.0047	0.00094	3.432	-0.0001	-0.0005	0.00051	4. 5 94
2.75		-0.9052	0.01057		-0.0004		0.00073	4.441
2. 25		-0.C070	0.01 345		-0.0002		0.00045	4.770
1.75	C.CICS	-0.0063	0.01274	2.849	0.0009	0.0004	n. nenca	4.097
1.75	0.00=1	C. 21 27	0.01345		-0.0011	-0.0005	J. 400. 51	3.405
77	Y-407	A-7C1	710					
					. 8			
	-0.0014	0.0004	0.0013-					
' • (Ci)	-0.0754	C. CO38	0.07569					
RASIT	THICKNES	(IN)	1.433					
ع ل ا ده	CTILC +	NGTH (IN	1 16.651					
71 15	CISTANO	E EBUN D	155 (1N)	•				
72-15	FTSTANIC	S ESEM N	15F (1M)					•

GUN PROJECTILE INSPECTION DATA
5/39 MK 56-0 LCT 75 PROJECTILE 83

INSPECTION DATE 10/23/70

31 IS DISTANCE BOOM BASE (14)

72-15 EISTANCE ENGN MISE (IN)

	. 1	INS	IDF	1	1	OUTS	SIDE)
71	X-ACT		TIP		X-ACT	Y-ACT	TIR	JUST DAY TO BUILD AND SHE
1.90	-c.0110	-0.0226	0.02513	2. 573	0.0	-0.0016	0.00160	4.900
2.50	-0.0033	-0.01 64	0.01969	3.371	0.0023	-0.0008	0.00244	5.123
3. 00	-0.0041	-0.0157	0.01967	3.490		-0.0004	0.00124	5.127
4. 40	-0.0074	-C.C167	0.01827	3.605	-0.0005	-0.0002	0.00054	4.394
5.00	-7.0046	-0.0157	0.01636	3.721	-0.0004	-0.0002	0.00043	4.059
6. 50	-0.0054	-0.0124	0.01440	3.837	0.0005	0.0	0.00050	4.958
7.50	-0.0057	-0.0106	0.01204		-0.0005	0.0002	0.00063	4.053
4. 50	-0.0074	-C. CCE4	C. 0111C		-0.0014		0.00144	4.059
9.90	-0.0003	-0.0063	0.01123	3. 925	-0.0013	0.0007	0.00149	4.95?
	(INS	IDF	1	(OUTS	106	1
12	X-4CT	Y-ACT	TIP		X-ACT	Y-ACT	TIP	CIA
5.75	-C.0071	-0.0070	0.00738	2,932	-0.0005	0.0013	0.00139	4,092
4.75	-6.0063	0.0	0.00430	3.400	-0.0015	0.0015	0.00012	4.224
7.75	-0.0036	0.0027	0.00530		-0.0035	0.0013	0.00373	4.707
3.25	-0.0057	0.0093	0.01007	3.597	-0.003?	0.0021	0.00593	4.627
7, 75	-0.0070	C.0125	0.01479	2.456	-0.0028	0.0025	0.00375	4,449
7.25	-0.0045	0.0139	0.01574	2.204	-0.0029	0.0009	0.00304	4.734
1.75	-0.0043	C. 2074	0.00973	2.942	-0.0026	0.0022	0.00741	4.193
1.25	-0.7777	0.0064	0.01093	2.424	-0.0022	0.7013	0.00256	3.000
72	X-1CT	Y-10T	TIO					
1.00	-0.0064	0.3004	0.00641					
7.00	-0.0)ee	-0.0023	0.00417					
BASE	THICKNES	35 (14)	1.647					
ונטפט	יריוני וי	ENGTH (IN	11 16.645					
					•			

GUN PPRIFCTILE INSPECTION DATA

5/38 4K 66-0 LOT 75 PROJECTILE 84

INSPECTION DATE 11/02/70

	(TAST	ne	1	(DUTS	106)
7.1	X-ACT	Y-ACT	110	DIA	X-ACT	Y-ACT	TIP	CIA
1.90	-0.0)21	-0.0051	C. CORES	3.022	0.0013	-0.0001	0.00130	4.032
7.00	C. COCT	-0.0059	C. CC584	3.379	0.0014	0.0002	0.00141	5.122
3.90	-0.0004	-0.0044	0.00442	3.403	0.0014	0.0006	0.00152	5.126
4.90	0.0002	-0.0050	C. CO 500	3.414	-0.0016	-0.0010	0.00104	4.035
5.90	0.0004	-0.0022	0.00405	3.73?	0.0017	-0.0	0.00170	4.057
4. 27	0.0045	0.226-	0.00623	2.952	-0.0005	-0.0002	0.00054	4. 355
7,50	0.0055	-0.00C4	0.00551	3.920	-0.0016	-0.0006	0.00171	4.056
3.00	0.0042	0.0000	0.00686	3.038	-0.0041		0.00410	4.057
9.90	0.0054	C. 00C1	0.00540	?. 047	-0.0035	-0.0006	0.00355	4.25.7
	(INSI	n	1	(0015	IDE)
7 7	X - 10T	"-ACT	TFD	714	X-ACT	Y-ACT	TTP	CIV
5.76	0.0024	-C.0014	0.00279	3.950	-0.0037	0.0001	0.00370	4.000
4.75	0.0018	0.0020	0.00260	-	-0.0024	0.0008	0.00253	4.990
2.74	0.00/0	O.CCCR	0.01100	3.70C	-0.0039	0.0	0.00340	3.705
3, 25	0.3115	0.0064	0.01405	3.579	-0.0045	0.0011	0.00443	4.594
2.74	C. C1 30	C.COF?	C. 01 4 CF	3.449	-0.0049	0.0004	7. 10497	4.447
2.25	0.0138	0.0112	0. C1744		-0.0045	-0.0004	0.00447	4.700
1 . 75	0.0170	0.01.56	0.02707	2.944	-0.0C41	0.0002	0.00419	4.003
1.25	0.0115	25.10.0	0.02040	2.619	-0.003S	0.0009	0.00400	3.000
73	X-1CT	Y-ACT	TIR					
1.00	-0.0052	0.0028	C. CC+44					
	-0.0002	0.0015	0.00649					

RASE THICKNESS (IN) 1. F17

PREJECTILE LENGTH (IN) 16. 446

71 IS PISTANCE FROM PASE (IN)

72 IS FISTANCE FROM MOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/38 MK 46-0 LCT 75 PROJECTILE RE
INSPECTION DATE 10/24/70

				_	_			
	()		OUTS	_	1
2.1	X-ACT	Y-ACT	TER	DIA	X-ACT	Y-ACT	TIR	CIA
1.00	C-0146	-0.0040	0.01514	2.951	-0.0C12	-0-0	0.00120	4.092
2. 50	-	-0.0056	0.02029	3.374		-0.0001	0.00091	5.126
3.00		-0.0034	0.01851	3.487			0.00134	6.127
4.00		-0.0033	0.01712		-0.0020		0.00200	4.094
5.50		-C.0044	0.01047		-0.0004		0.00057	4,757
6.90		-0.0046	O. CT CAF	7.838			0.00130	4.457
7.90		-0.0043	2.01247	3. 52 9			0.00122	4.055
8.00		-0.0051	0.00202		-0.0005		0.000/4	4.055
9. 50		-0.0050	0.00743		-0.0011		0.00110	4. 154
	17.	- (• 117 , 17	Unit O Paris	• • • • •	-0.0011	V • 1.5	11.0 (11.1)	4 6 7 7 7
	(INST	INF	1	(01179	ine)
7.2	Y-40T	Y-ACT	A Å G	UIV	X-ACT	Y-ACT	TIP	CIA
5,75		-C.CC44	0. (6590	3.946	0.0004	0.0002	0.00045	4.007
4.75	0.0057		ሰ•	3.408	0.0020	0.0008	0.00215	4.074
3.75		-0.0000	0.00761	3.757	0.0003	0.0007	0.00076	4.697
3.25	C.0010	-	0.00461	3.449	0.0001	0.0011	0.00110	4.576
2.75	0.0042	0.0051	0.01033	2.512	0.0C13	0.0016	0.00205	4.434
2.25	0.0075	C. COE2	0.01119	3.331	0.0012	0.0007	0.00130	4.274
1.75	C. 01 35	C.COFF	0.01 505	3.030	0.0036	0.000°	0.00310	4.094
1.25	0.0007	0.0127	0.01 247	2.546	0.0019	0.0011	0.00220	3.341
7 5	X-10T	Y-ACT	710					
1.00	-0.0211	ר• ווויים	0.00400					
-	-0.0010	0.0065	0.00474					
	, ,							
здеп	THICKNE	Sc (141)	1.570					
טול כ'ח ג	CTHELF	MOTH (IN	1 14.662					
71 15	PISTANC	ה בטנא פ	V2c (1V)					
15.10	DISTANC	E ESUN W	95E (191)					,
73 [5	DISTANC	E ESCH VI	nse (19)	SOP THRE	An TTR			

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LCT 76 PROJECTILE 81
INSPECTION DATE 10/29/70

	1	INST	ne'	1	1	OUTS	IDF	1
7.1	X-ACT	-	011	DTA	X-ACT		TIR	n t v
1.90	0.0000	0.0072	C. C-173	2.907	0.0009	0.0002	0.00092	4.985
2.00		0.0031	0.01965	3.370		-0.0002	0.00073	5.123
3.00	-	0.0040	0.03089	3.489		-0.0001	0.00091	5.124
4.90		0.0034	0.02019		-0.0009	0.0004	0.00098	4.594
5.00		0.0035	0.01571	3.722	0.0002	0.0016	0.00161	4.062
4. 20		0.0042	0.01761	3. 83 6	0.0002	0.0018	0.00181	4.061
7.00	0.0170	0.0046	0.01848	3.924	0.0001	0.0016	0.00160	4.940
a. cn	0.0160	0.0034	0.01636	3.979	-0.0005	0.0015	0.00156	4-240
ລູ ວດ	0.0127	0.0039	0.01329		-0.0010	0.0022	0.00242	4.961
	1	1851	nF +	1	(nuts	ine	1
) 2	X-1CT	Y-4CT	TIR	DIA	X- AC T	Y-ACT	TTO	DIA
5.75		0.0071	0.0000	3.941	-0.0010	0.0000	0.00135	4,093
4.75		0.0025	0.00762		-0.0006	0.0014	0.00152	4.993
3.75	0.0000	0.0022	0.00356		-0.0015	0.0018	0.00241	4.707
	-0-00->	0.0057	0.00654	3.647	-0.0013	0.0028	0.00207	4.500
2.75	-0.0041	0.0063	O.CCP11	3.486	-0.0023	0.0023	0.00325	4.4.5
5. 52	-0.0730	0.0064	0.00749	2.244	-0.0021	0.0023	0.00211	4.744
1.75	-0.0013	0.0063	0.00643	2.859	-0.0033	0.0012	0.00351	4.105
1.25	0,0103	0.0021	0.01076	2.572	-0.0063	0.0002	0.00630	4.777
7 7	Y- 17	Y-10T	TTP					
1.00	-0,000	0.0019	0.((82(
7.00	-0.0184	- 0° 0003	0.01840					
RASE	THICKNES	5 ([1])	1. F4.6					
מא נוֹ־ן נ	רדונה וה	NSTH (IN	1 14. (69					
71 19	PISTANO	E ECUN B	ASE (IN)					
72.79	PESTANC	E EDUN NO	365 (1M)					
72 10	_C[\$749C	ב בַּצַרא מו	75E (1V)	FOR THPF	AD TIR			

GUN PROJECTIVE INSPECTION DATA
5/38 MK 66-0 LOT 76 PROJECTIVE P2

INSPECTION DATE 11/02/70

							122	
		INSI)			IDE)
71	X-ACT	Y-ACT	TTR	DIA	X- AC T	Y-ACT	TTR	DIA
1.90	0-0044	-0.0016	0.00468	2.973	0.0014	0.0002	0.00141	4.092
2.50	_	-0-0105	0.01637		-0.0015	0.0	0.00150	5.122
3.90		-0-0065	0.00992		-0.0013	0.0005	0.00139	5.127
4.90	_	-C-0044	0.00442	3.608		0.0005	0.00050	4.994
	C.0013		0.00383	3.726		0.0009	0.00192	4.050
	-C.0048		0.00600	3. 84C		0.0012	0.00130	4.961
	-C.0053		0.00592	7. 925	_	0.0013	0.00191	4.060
	-0.0085		0.00556		-0.001A	0.0006	0.00120	4.060
	-0.0100		C. C1 C99	-	-0.0016		0.00161	4.041
	- 0.5 1717	-040014	COULCE	26726	-0.0012	-0.00035	0.00161	₩ 6 11 7 1
	(INSI	DF	4 1	(OUTS	IDE	1
72	X-ACT	Y-ACT	TTP	DIA	X-ACT		TTP	LIV
5.75	-C.0113	-0.0023	0.01225	3.43 6	-0.0006	0.0015	0.00162	4.095
4.75	-0.0097	-0.0015	0.00982	3.003	-0.0009	0.0006	0.00100	4.000
3.75	-0.0002	0.0019	.0.0027	3. 785	-0.0020	0.0008	0.00715	4.702
3.25	-0.0076	0.0029	0.00913		-0.0017	0.000 =	0.00177	4. 604
7.75	-C.COAO	0.0015	0.00613		-0.0012	0.0015	0.00197	4.442
2.75	-0.0093	9.2057	0.01091		-0.0020	0.0010	0.00224	4.291
1.75	-0.0114	0.0100	0.01516		-0.0007	0.0014	0.00157	4.000
1.25	-0.0017	0.0054	0.00985		-0.0006	0.0004	2.00095	3,000
77	X-ACT	Y-ACT	TIP					
	-0.005?		0.0566					
1. €.0	-0.00cl	- C* GS C 6	0.02252					
0465	T. I CKNE							
il Il An	THICKNES	, (14)	1.648					
סף כ"ו ב	CTILE	NGTH LIN	1 16-670					
					•			
Z1 TS	PERTANC	E LOLN E	ASE (TH)					
					•			
72 16	DISTANC	E BOUN A	NSE (TM)					•

GUN PROJECTILE INSPECTION DATA

5/38 MK AA-O LOT 76 PROJECTILE B3

INSPECTION DATE 10/23/70

	(TAST	DE	1	(CUTS	10F	1
71	X-SCT	Y-ACT	TTR	DTA	X-ACT		TIR	TTA
1.50	C. 0147	C.C!C0	0.C1778	3.013	-0.0002	-0.0011	0.00113	4.024
2.90	0.0186	C.CUs.	C. 020F1	3.376	0.0017	-0.001 C	0.901 =7	6.176
વ, ∷∩	0.0130	0.01.04	C.Cl mag	3.492	0.0005	-0.0002	0.00054	5.126
4.00	C.0087	C.01C1	0.01333	7.507	0.0002	-0.0001	0.00022	4.735
5,00	9.0366	0.0059	0.01190	3.72C	-0.0004	-0.001C	0.00109	4.257
5.00	C.COF4	C. 01 C2	0.01329	3.834	0.0014	-0.0004	0.00145	4.050
7. 0	0.0040	0.0112	0.01271	3.925	0.0005	-0.0002	0.00054	4.055
9,00	C.CC47	C. 0'17	0.01747	3. C27	-0.0001	0.0	0.00010	4.957
o . cD	0.0037	C. C'19	0.01237	3.630	0.0	0.0002	0.00020	4.050
	(1851	176	1	1	OUTS	:TOS	1
7 7		Y-101	113	010		Y-ACT	T T 12	Γ1Λ
•	4-11.1	A = 41 (1	, , ,	-) [n	X- 4C 1	4- W. 1	11.	1 [/1
5.75	0.0010	0.0115	0.01166	3.934	-0.0007	0.0002	0.00073	4.084
4.75	C. 00 34	0.0112	0.01148		-C.000°	0.0005	0.00094	4.00%
2.75	C. 10 C.	0.0080	0.00504	3.771	-0.0016	0.0012	0.00200	4.490
	-0.0017	0.0094	0.00957	3.645	-0.0013	0.0004	0.00134	4. 74
	-C. 234"	0.0101	0.01104		-0.0011	0.1010	0.00140	4.436
2. 25	-). ()?:	0.0057	0.00007		-0.0C1 @	0.0011	0.00711	4.271
1.75	C.0016	0.0058	0.00031		-0.0011	0.0003	0.00126	4.001
1.75	0.0003	0.01 = 4	0.01904	2. 577	0.0015	0.0029	0.00724	3.042
7 7	Y-40T	Y-^CT	TIP					
1 60	-0.0000	2.0944	0.00522					
-	-0.(1)54	() 1 2 4	7,77445					
• (11)	-11.	(• 1) • • •	1) • 11 14 4					
DACE	THICKNES	5 (18)	1.554					
מארונ	ביוני ויי	NGTH (IN	1 15.661					
					•			
71 13	C FISTANC	r ESUA h	450 (TN)					
77.10	- PISTANC	e moth W	157 (IN)		,			
72 [0	CHSTANC	E FREM N	ase (IN)	EU6 THSI	AN TIR			

GUN PREJECTILE INSPECTION DATA
5/38 MK 65-0 LCT 76 PROJECTILE 84

INSPECTION HATE 10/22/70

		!\ 6	IDC .		-	01176		
71		Y-4CT	IDF TIR)	X-4C T		T1P	
, I	3-061	7-4(-)	716	1117	A- 141, 1	4-4C1	1 1 14	117
1. 20	0.0061	-0.0054	0.00815	2. 575	-C. CC03	-0.0019	0.00190	4.001
2.50		0.0006	0.01401		0.0013		0.00132	5.121
1.00	ר. רויכי	-0.0013	0.00000	3.405		0.0002	0.00022	5.124
4.90	0.0060	-0.0041	0.00727	3.510	-0.0011		0.00223	4.005
5.90	0.0048	-0.0049	0.00679		-0.0003		0.00197	4.062
5.30	0.0064	-0.0064	0.00777	3.841	0.0007	-0.0010	0.00203	4.042
7.00	0.0034	-C.0075	G.CCP23	3.42 C	0.0010	-0.0021	0.00233	4.743
9.90	0.1114	-0.0084	0.00001	3.924	-0.0C15	-0.0024	0.000283	4.967
a • aU	0.0025	-C.01!1	0.01120	3. c27	-0.0002	-0.0019	0.00191	4.050
	_							
	-	TNST)	•	חוודק	• •	1
7 7	X - 4 C.T	Y-4CT	TIO	DIA	X- 40 T	Y- AC T	115	LIV
5.75	0.0045	-0-0122	0.01315	3.632	-0.0003	-0.0020	0.00202	4.045
	0.0044		0.01741		-0.0009		0.00128	0.1
		-0.0130	0.01302		-0.0014		0.00222	4.707
	-0.0065		0.01203		-0.0010		0.00283	4 8.94
	-0.0197		0.01196		-0.0015		0.00259	4.6.165
	-C.010F		0.01120		-0.0C15		0.00293	4.727
	-0.0000		0.00055		-0.0004		0.00234	4.10/
	-0.0107		0.01571		-0.0007		0.00260	3.304
								-
72	X-10T	Y-1CT	TIO					
1. CO	r.gees	0.0015	0.0175					
7.00	0.0013	1000 an	0.00130					
• ()	• • • • • • • • • • • • • • • • • • • •	11. C.J.C.	• • • • • • • • • • • • • • • • • • • •					
8455	THICKKE	(NI)	1.511					
שמרוב	CTIL- I	MOTH (14	1 16.662					
				,				
71 75	PESTANO	י איים ב	455 (TN)					
77.15	DISTANC	E EBLM A	UZE (IV)					•
72 10	CICTANO	c cock w	000 / 1111 -	00 1000	AD TTO			
/ 15	1. 12 1 441	· Polar A	USE (14) E	LIK INCE	AII IIP			

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LCT 76 PROJECTILE 85
INSPECTION DATE 11/01/70

	(INSI	DF	1	(01175	IDF)
7 1	X-4CT	Y-ACT	TIR	DTA			TIR	CIA
1.00	-0-0020	0.0000	0.00951	2.945	0-0003	-0.2007	U.00074	.4.983
	-0.0023		C. CC4P9	3.363		-0.0002	0.00600	5.123
	-C.00F1		0.00667	3.47¢		-0.0008	0.00330	5.126
	-0.0000		0.0000	3.595		-0.0022	0.00239	4.092
	-0.0053		0.00566	3.711	0.0005		0.00060	4.759
-	-0.0020		0.00502	3.826		-0.0002	0.00191	4.057
	-0.0030		0.00716	3.050		-0.0001	0.00150	4.057
	-0.0020		0.00747	3.920		-0.0002	2.00151	4.050
	5,0005		0.00760	7, 623		-0.0002	0.00134	4.050
			5.60700	•	0.0010	-0.00	.7.6 (7/1)	
	(INST	7F	1	1	OUTS	TDE)
7.7		Y-ACT		DIA	•	Y-ACT	Lio	
	_		·					•
5.75	C. 131) 7 4	-C. CO75	0.00919	3.037	0.0023	-0.0009	0.00247	4.047
4.75		-0.0071	C. 00746	3.902		-0.0006	0.00338	1.032
3.75	-0.0011	-2.0024	0.00264	3.724	G-0C22	-0.000?	0.00221	4.701
3. 25		-0.0025	0.00261	2.605	0.0011	0.0005	0.00121	4.521
2.75	0.0064	-0.0010	C. CCF4F	3.462		-0.0	0.00220	4.440
2.25	0.0121	1500.00-	0.01229	3.284	0.0014	-0.0008	0.00151	4.775
1.75	C. CCa5	-0.0017	0.CCF37	2. 092		-0.0010	0.00006	4.704
1.25	C.0044	0.0049	0.00659	3.628		-0.0005	0.00216	3 2 2 3
72	X-10T	Y-ACT	TTO					
1 - 00	-0.0	C- 00C2	0400030					
	-0.0274		0.02372					
, , ,	0.0	0 • (/01 ½	0,00					
RAST	TETCKNES	S (IN)	1. FA.6					
				•				
סטנור	CTTLE LE	MULH (IN	16.656					

22 IS PISTANCE FROM NUSE (IN)

GUN PROJECTILE INSPECTION DATA 5/29 MK FO-C LCT 77 PROJECTILE R1

INSPECTION PATE 10/21/70

		INC	DF	1	(OUTS	105)
71	ALL RESIDENCE TO SERVICE AND ADDRESS.	Y-ACT				Y-ACT	• •	rta.
1.00	0.0027	-0.0074	0.00775	2.987	-0.0013	0.0005	0.00133	4.591
2. 90	0.0038	-0.0139	0.01431	3.387	-0.0	-0.0010	0.00100	6.134
3.00	0.0042	-9.COF9	C. CC 644	3.502	0.0001	-0.0007	0.00071	5.12-
4.90	0.0077	-0.0029	0.00470	3.414	-0.0020	-0.0003	0.00202	4.093
5.90	0.0057	-C.0021	C.CCEO7	7.720	-0.0C27	-0.0014	0.00:04	4.054
5.90	0.0044	-0.0020	C. CO443		-C.0007		0.00026	4.55%
7. 30	0.0072	-C.00C2	0.00720	3.030	-0.0017	-2.0004	0.00175	4.050
8.40	0.0054	-0.0003	0.00541	3.533	-0.0021	-0.0011	0.0007	<u>ដ</u> ូកគ្គ
3.00	0.0050	-0.0000	C.CCFD9	3.005	-0.0030	-0.0000	0.00313	4.054
	(INSI	ine)	(OUTS	JDF	1
7.7	X-ACT	Y-ACT	TJP	Ula	X-ACT	Y- 40 T	TIR	L1 4
E . 75	0.0070	-0.0008	0.0070=	? . C3F	-0.0010	-() - () () () ()	0.00129	4.194
4.75	0.0072	0.0012	0.00730	3.874	-0.0014	-0.0010	0.00173	6.034
2.75	C. 0044	0.0041	0.00764	7.747	-0.0024	-0.0013	0.00773	4.700
3.25	0.0030	0.0004	0.01036	3.618	-0.0023	-0.0006	0.00232	4.55
2.75	0.0051	0.0129	0.01307	3.454	-C.OC! 2	-0.0011	0.00153	6.641
2. 25	0.0000	9.0127	C. C1 272		-0.0027		0.00273	4.093
1.75	0.0012	0.0093	0.00040	2.914	-0-0024	-0.0010	0.00240	4.101
1.05	-0.0112	0.0044	0.01704	7.574	-0.0011	-0.0011	0.001=	5,001
73	X-ACT	Y-ACT	TIR					
1.00	-0.0001	-0.0037	0.00270					
7.00	-0.0068	-0.0260	0.02401					

BASE TEICKNESS (IN) 1.546

PROJECTILE LENGTH (IN) 16.754

71 IS DISTANCE FROM PASE (IN)

72 IS DISTANCE FROM MOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LOT 77 PROJECTILE 82

INSPECTION DATE 10/20/70

	7							
7.1		INS!)		0019	• -	;
7. 1	A-4()	Y-ACT	TIR	DIA	X-VC T	Y-AC T	T [2	CIA
1.90	0.0045	0.0034	0.00075	2.961	0-000	0.0008	0.00120	4.735
2.00		-r.0041	0.00430			-0.0018	0.00334	5.125
3.40		-0.0035	0.00504	3.494		-0.0017	0.00102	5.12
4.00		-1.0019	0.00407	3.612		-0.0006	0.000033	4.934
5.00		-0.0027	0.00450		-0.0008		0.00161	4.960
5.50	0.0026	-0.0049	0.00546	7. 947	0.0012	-0.001 G	0.00155	4.042
7.90		-0.C057	0.00585	3, 62.5		-0.0014	0.00166	4.60
	-0.0002		C.CC210	3, 633		-0.0017	0.00170	4.040
	-0.0016		0.0075	3,035		-0.0056	0.00170	_
				3. 1.30	0.0007	-0.0016	0.00 57	4.541
	(TAST	nr	1	(OUTS	INF)
7 7		Y-10T	TIO	DIA	X-ACT		TIP	I'T A
								. ,
	-c.c.		0.00942	्र त्राप	-0.0003	-0.0021	0.00213	4.024
	-C.0031		C. C. 620	3.803	0.0013	-0.0011	0.00170	4 835
7.75	-0.0051	0.0001	0.00510	3.700		-0.0019	0.00100	4.704
3. 25	- () - () 4 "	-0.0027	0.00525	3.565		-0.0024	0.00742	4 693
2.75	-C. (0) F4	-0.0045	0.00703	3.430		-0.0016	0.00180	4.440
2.25	-0.006l	-9.C947	0.00770	3.259		-0.0016	0.00160	4.180
1.75	-0.0119	-0. 2055	0.01311	2.95C	-	-0.0021	0.00223	4.097
1. 25	-0.0140	0.0047	0.01562	2.051		-0.0015	0.00727	3.005
				•	0.000		(• OO .	7 4
77	Y-11-7	Y-4CT	TIB					
	0.0051							
1.00	0.0021	0.00??	0.00391					
7.00	0.0035	0.0012	0.0370					
DACE	THICKNES	C / TALL	1 674					
5 4 5	TETT KAT	, (, , ,)	1.574					
02010	CTILELE	NOTE (IN	11/1/5/					
· Kraji	11111 11	MODE CIN	1 1.6					
				·				
71 15	PESTANO	r ronk n	ASS. A THIS					
• •	. 1 7 . 7 . 1							
72 15	DISTANC	E ERUM N	ISE CINI					
73 15	CISTANO	E FREM NO	ISE ETNI E	OR THRE	AD TTP			

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LOT 77 PROJECTILE 83

INSPECTION DATE 10/21/70

(

							•	
	(INS)			108	1
71	X-1CT	Y-ACT	TTR	DIA	X-AC T	Y-ACT	TIP	CIV
1.90	0.0094	0.0041	0.01308	2.938	0.0012	0.0003	0.00124	4.291
2.90	0.0172	-0.00F1	C. 01794	3.358	-0.0000	-0.0013	0.00153	5.120
3.90		-0.0014	0.01308	2.492	-0.0023	-0.0021	0.00311	5.121
4. 91)		0.0022	0.01102	3.576	-0.0021	-0.0016	0.00254	4.931
5.90		0.0034	0.01014	3.71 C	-0.0015	-0-0023	0.00375	4.054
5.90		0.0053	0.00963	3. 82 4	-C. OCC5	-0-0010	0.00112	4.053
7. ()		0.0058	0.00964		-7.0004		0.00155	4.0.57
4. 60	0.0054	0.0057	C. CC 795		-0.0021		0.00264	4.752
3.40		0.0057	C. CC7F2	3.527	-0.0012	-0.0020	0.00213	4.452
	(INSI	n=	1	1	OUTS	tor	
72	X-1CT	Y-ACT	TIP	DIV		Y-ACT	11c)
			• •		A- 11, 1	4-14.		PTA
5.75	0.0054	C. 0049	0.00720	3,530	-0.0012	-0.0024	0.00706	4.233
4.75	0.0052	0.0034	0.00421	2,802	-0.0008	-0.0025	0.00260	4.374
3.75	0.0041	0.0032	0.00520	3.76 C	-0.0015	-0.0026	0.002	4,467
3.25	0.0064	0.0040	2.00206	3.634	-0.0019	-0.0028	0.00277	4.576
2.75	0.0001	0.0050	C. 01 02 9	3.461	-0.0034	-0.0025	0.00423	4.42
2.25	0.0087	0.0054	C. 01041	3.207	-0.0018	-0.0029	0.00341	4.273
1.75	C. CCAR	0.0034	0.00015	2.870	-0.0015	-0.0024	0.00300	4.00
1.25	0.0070	0.0121	0.01440	2.565	-0.0014	-0.001¢	0.00200	2 000
72	X-10.F	Y-10T	TIP					
1.00	-0.00=2	-0.0052	C. 00715					
7.00	-0.0010	-0.0041	0.00833					
PASF	THICKNIS	S (TNI)	1.574					
الال الم	CTILT I G	NSTH (TNI	16.664					
71 [5	FISTANC	ר בטטא אי	/2= (1II)					
22: 15	FISTANC	F FPCH NO	SE (TH)		25			*



GUN PROJECTIVE INSPECTION DATA

5/39 MK #4-0 LCT 77 090JECTILE 84

INSPECTION DATE 10/29/70

72 IS DISTANCE FROM NOSE (TH)

13 IS DISTANCE ENUN MUSE (14) EUR THEEND ITS

	(INST	DE	1	(CUTS	10F	1
7.1	X - V C L	Y- 40 T	TIP	DTA		Y-ACT	TIP	DIA
	-0.0014		0.00305	2.970	0.0012	0.0008	0.00144	6.477
	0.0043		0.00600	3.391	-0.0017	-0.0047	0.00500	5.174
3.00	-0.0003	-U.CUEI	C. CO511	3.494	-0.0017	-0.0031	0.00374	7.175
	-0.00 3a		C. CC524		-0.0022	0.0006	0.00222	4.000
	-0.0071		0.00468	7.777	-0.0013	-0.0004	0.00174	4.950
	-0. Ccc;		0.01004		-0.0C14	0.0000	0.00166	4.000
	-0.0000		C.CC974	3.925	-0.0017	0.0010	0.00107	4.25)
	-0.0103		0.01234	3.676	-0.0022	0.0000	0.00239	4 3
a _ ^^	-0.0114	-0+00+1	0.01203	3. 65.0	-0.0019	0.0009	0.00210	4.940
	(TAST	nF)	(0015	Ti)!)
7.2	Y-101	Y-1CT	TIP	DIA		Y-ACT	TIP	PIA
E , 7"	-0.0114	-3.0080	0.01343	3.032	-0.0010	0.0013	0.00154	4.727
	-0.000:		0.01205		-0.0020	0.0014	0.00744	4.027
3.75	-0.9074	-0.3063	o.coain		-0.0017	0.0013	0.00214	4.507
	-0.0045		0.00555		-0.0035	0.0012	0.00270	4.57/
7.715	0.0114	-0.0011	0.00104		-0.0026	0.0018	0.00316	4.437
2,23	0.0010	-0.0010	0.00535		-0.0013	0.0019	0.002 00	4.270
1.75	0,0007	-0.0064	C. CC444		-0.0C13	0.0016	0.00206	1.0-0
1.25	0.0030	-c.viez	0.01 =73		-0.0008	0.0026	0.00272	3 9 -0
7 3	Y-101	Y-1CT	TIE					
1.00	-c.noce	0.0029	0.00304					
7.00	0.0177	0.0184	0.65222					
SYCE	THICKARS	Strat	1.567					
pgaya	CTHE LE	NGTH (TN	16.673					
7; 15	PISTANC	E EBUM OV	SE (TAL)					

GUN PROJECTILE INSPECTION DATA
5/28 MK A6-0 LCT 77 PROJECTILE 85

INSPECTION DATE 10/27/70

	(INST	DE)	(nuts	IDE	1
71		Y-ACT	TTR	-		Y-ACT	TIP	CTA
		0.0025	0.00277	7. 977		-0.0001	0.00051	4.024
	-	C. CO C3	0.00394	3.380		0.0002	0.00531	5.172
	-0.0042		C. CO 47 2	3.457	0.0026		0.00272	5.124
		-0.0020	0.00000	3.611		-0.0005	0.00110	4.045
		-0.0075	0.00382	3.724		-0.0006	0.00284	4.057
		-0.0032	0.00446	3.841		-0.0009	0.00223	4.359
-	0.00 3k		0.00300	3. 656		-0.0003	0.00217	4.757
	-C.0030		0.00250	3.032	0.0012		0.00174	4.057
0 • dU	-0.0002	0.0007	C•00009	3.941	0.0005	-0.0009	0.00000	4.957
	<u> </u>	1851	05			OUTS	105	•
7 ?		Y-ACT	TIR)		Y-ACT	# # P)
٤:	A- 11.	4-7/1	114	HIA	A- AL. 1	¥- N(,)	114	1, 1, 4
5.75	-()	0.0046	0.00444	7.044	0.0031	0.0001	0.00310	4.493
	-C.0014		0.00354	2.904		-0.0003	0.00124	4.095
3.75		0.0015	0.00242	3.761		-0.0003	0.00104	4.700
-	0.0015		0.00219	3.641		-0.0004	9.00050	4.470
2.75		-0.0064	0.00655	3.4.84	0.0001		0.00010	4.43.
2. 25		-n.cn=1	0.01036	2. 354		-0.0004	0.00109	4.773
1.75		-0.0001	0.01464	2. 891		-0.0002	0.00063	4.037
1. 25		-0.0079	0.01771	2.572		0.0002	0.20063	3.920
				, •				
73	X-1(T	Y-107	710					
1.00	0.0009	-0.0014	0.00141					
	-0.0013		0.00101					
BJCE	THICKNE	IC (IN)	1,564					
DE C.JE	:	NOTE LIN	1 16.4/8					
				•				
71 19	CISTANO	E ESCM E	15E (19)		• 111			
								•
15 10	CISTANO	c EDLN M	155 (TN)					
72 [9	PISTANO	E BREN N	SE (19) 1	FOR THRE	ATT CA			

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 78 PROJECTILE BL
INSPECTION DATE 10/23/70

			•					
	(INS	105)	(OUT	110°	1
71	X-ACT	Y-ACT	Lin	DIA			T J 19	614
1.00	-0.0039	-0.0154	0.07 684	2. 656	C. 0C19	0 0002	0 00100	
2.00	-0. (070	-0.0072	0.01004	3.370		0.0003	0.00197	4.096
3. 00	-0.0062	-0.0065	C.01052	3.485		-0.0013	0.00327	5.122
4. 00	-0-0070	-0.0102	0.01277	3.6 C6			0.00220	5.123
5. 90	-0.0007	-0-3101	0.01332	3.721	0.0022	0.0015	0.00266	4.900
5.90	-0.0000	-0-0105	0.01435	3. P41	G-003 C	0.0016	0.00255	4.050
7. 22	-0.0112	-0.0100	0.01-01		0.0014	0.0007	0.00157	4.749
9. 00	-0.0104	-0.0100	0.01463	3.022	0.0013	0.0012	0.00177	4.040
9.00	-C.00e3	-0.0100		3.534	0.0000	0.0018	0.00201	4.949
	0.000	-6-416-	C. C1 370	3.943	0.0007	0.0016	0.00175	4.047
	(INST	ne	1	1	กมาร	104	
7 7	Y-1CT	Y-ACT	TIR	DIA	X-ACT			1
					4-41 1	Y = AL, 1	T 7 12	414
F , 75	-0.00=4	-5.6160	0.01161	3, C4 0	0.0010	0.0014	0.00172	4,077
4.75	-0.0341	-0.0077	C.ccala	3.904	0.0004	0.0017	0.00130	4.090
	-C. CCF ?		0.00707		-0.0001	0.0015	0.00157	4.404
3. JE	- J • (r ·) c ·	-0.0001	0.00540	3. + 5 1	-C.0018	0.0019	0.001	_
7.75	-0.0069	C.COCI	0.00.00	2.400	-0.0006	0.0025	0.00262	4.477
2. 76	-0.0055	0.0013	0.00556	7. 777	-C.0CC9	0.0022	0.30257	4.432
1,75		0.0160	0.02062	2. 430	-0.0003	0.0026	0.00242	4.271
1. 75	0.010	-0.0050	0.01.40		0.0004	0.0074	0.00219	4.003
				• • • • •	118111.04	17. 70.44	0.00242	
73	X-1CT	Y-10T	770					
1.00	-0.0017	0.0032	0.00414					
	0.0054	C. C274	C. C7 9 7					
7465	THICKNES	SITNI	1.509					
undle	CTILE IE	NGTH (TY)	16.711	٠				
71 15	PISTANC	E EDUA HA	SE (IN)					
79 15	LI STANC	ב במבא אם	3c (1M)					•

GUN PREJECTILE INSPECTION DATA 5/38 MK 66-0 LCT 79 PROJECTILE 82 INSPECTION DATE 10/29/70

	(INSI	INF	1	(OUTS	IDE	1
21	X-1CT	Y-ACT	TIP					
1.00	C.0217	-C.03 F3	0.0440?	2. 985	-0.0006	-0.0011	0.00125	4. 370
3.00	0.0580	-0.0174	C. Cales	3.24F	-0.0002	-0.0021	0.00211	5.123
3.50	C. 00 47	-0.0102	0.01341	3.496	-0.0029	-0.0015	0.00324	5.124
4.50	-C.0045	-0.0043	C. CC789		-0.0012		0.00192	4.092
5. 30	-0.0764	-0.0029	0.00904			-0.0000	0.00247	4.943
4. 90	-0.00 40	-0.7054	0.00945	3.001	-0.0012	-0.0007	0.00130	4.050
7. 67	0.0036	-C.0134	0.01399		-0.0019		0.00191	4.961
3. 7.)	0.0030	-C.C137	0. C1402	3. 636	-0.0C28	-0.0006	0.00294	4.760
0.00	-	-U-Ulte	0.01 F74	3.92 R	-0.0009	-0.0001	0.00031	4.963
	(INST	nr)	(nurs	106)
7 >	X-ACT	Y-ACT	110	214	X-ACT	Y-ACT	TIR	CIV
5.75	C. 0168	-0.0164	0.02502	3.521	-0.0013	-0.0013	0.00134	4.097
4.75	0.0120	-C. G1 FF	C. C2C17	2.879	-0.0025	-0.0004	0.00253	4.379
3.74	0.0111	-0.0143	0.01610	3.725	-0.0020	-0.0002	0.00?01	4.705
2. 25	0.0040	-C.nocn	0.01071	3.616	-0.0023	-0.0002	0.00331	4.403
2.75	0.037/	-0.0024	0.00369	3.487	-0.0035	0.0002	0.00351	4.442
2. 25	-0.0014	C. nncl	0.00140	3. 707	-0.0029	-0.0001	0.00340	4. 222
1.75	-C.C)44	0.0019	0.00474	2.947	-0.0C34	-0.0002	0.00341	4.101
1.25	-0.0074	0.0065	0.00742	2.621	-0.0034	-0.0001	0.00340	2.038
7 7	X-1CT	Y-1CT	112					
1.00	-0.0014	-0.0007	0.00157					
2 00	-1 0127	0.0044	0 01421					

7.00 -0.0127 0.0064 0.01421

BASE THICKNESS (IN) 1.567

PPCJECTILE LENGTH (IN) 16.661

- 7) IS FISTANCE FROM PASE (IN)
- 72 TS OTSTANCE FROM NOSE (IN)
- 72 IS DISTANCE FREN NOSE (IN) FOR THREAD TIR

GUN PROJECTILE INSPECTION DATA

5/30 MK 64-0 LOT TR PROJECTILE R3

INSPECTION DATE 10/30/70

	(1851	ne	1 1	1	nurs	105)
71	X - 10 T		TIR				LIS	111
1.90	-0.0000	C. C1 80	C. C2(01	2.920	-0.0002	0.0003	0.0003/	4.901
2.00)	-0.021c	0.0072	0.02305		0.0001	0.0006	0.00061	5.122
3 . 0()	-0.0201	0.0082	0.02171	3.490	0.0002	0.0005	0.00054	E . 174
4. 90	-0.0147	0.0079	0.01843	3.601	-0.0004	-0.0006	0.00072	4.007
5. 91)	-0.0149	0.0058	0.01787	3.715	-0.0011	0.0002	0.00112	4.05
6.00	-0.0130	0.0015	0.01700	3. 831	-0.0014	-0.0003	0.00143	4.057
	-0.0104	0.0012	0.01067	3.924	-0.0017	0.2004	0.00175	4.357
8. 30	-0.0000	-0.0012	0.00028	3.920	-0.0C13	0.0004	0.00134	4.957
9.00	-0. 30 FC	-0.0023	0.00504	3. 638	-0.001P	0.9904	0.00184	4.557
					11			=
	(0	1	(10h)
12	Y-10.T	Y-10.T	TIR	710	X-ACT	Y- 10 T	115	LIV
5.75	-0.000	-0.0040	0.00498	3. 646	-0.0005	0.0002	0.00054	4.000
-	-0.0000	•	0.10444		-0.0024	0.0003	0.00242	4.026
3.75		Cacoos	0.00582		-0.0022	0.2007	0.00033	4.701
3.25		c.nncs	G. C1 C1 4		-0.0024	0.0008	0.00153	4.570
2.75		-0.0034	0.01475		-0.0026	0.1002	0.00261	4.437
2, 25		-0.0066	0.01749		-0.0024	0.0005	2.00265	4.276
1.75		-0.0063	0.02724		-0.0013	0.0018	0.00222	4.004
1.25	-	-0.0050	0.01791		-0.0014	0.0015	0.00205	2 112
• • • •	. •			• • •				
7 7	X - 10 T	Y-101	110					
1 00	-0.0031	-0 0015	0.00244					
	0.0016		0.00198					
1 6 (21)	• 1.11							
	F.							
9455	TETCKNES	S (TN)	1. 570					
וישמן	COTILE LE	MOTE (IN	1 16.665					
71 1	CICTANO	e book a	ACE ITALL					
' I I '	2 () () ()							
77 90		T FREM N	OSE (TO)					•
·								
77 [S DISTANC	L EDUK N	OSE (IN)	FOR THRE	AN TTR			

GUN PROJECTILE INSPECTION DATA 5/39 MK 66-0 LOT 78 PROJECTILE R4 INSPECTION PATE 10/23/70

	1	INST	ne	1	(OUTS	tos)
71	X-ACT		TIP	DIA	X-ACT		TTO	LIV
1.90	C.0076	0.0047	0.00894	2.544	0.0005	0.0009	0.00103	4. 102
2.90	C+ 00 20	0.0001	0.00300	7.377	0.0028	-0.0004	0.00203	5.122
3.00	0.0050	C.0012	0.00514	3.404	0.0009	-0.0032	0.00330	5.127
4.90	0.0316	0.0011	0.00124	3.609	-0.0010	0.0011	0.00142	4.787
5. 90	-0.0014	-C.COC5	0.00145	2.724	0.0009	0.0018	0.00137	4.059
5.00	-0.0025	-0.0001	0.0250	7.047	0.0022	0.0010	0.00262	4.056
7.90	-0.0049	-0.00CR	0.00494	3. 974	0.0011	0.0024	0.00264	4.751
9. CO	-0.0055	-0.0017	0.00576	3.928	0.0020	0.0016	0.00255	4.036
J. cJ	-0.0091	-C• CC 39	C. CCCSE	3.033	0.0002	0.0012	0.001 22	1. 6 5 14
	(INST	ng)	(nuts	THE)
? 2	X-4CT	Y-ACT	TIO	DTA	X- 1C T	Y-ACT	440	LIV
5,79	-0.0130	-0.0063	0.01467	7.047	0.0015	0.0013	0.00704	4.300
4.74	-0.0121	-0.0034	0.01271	3. CUE	0.0015	0.0014	0.00313	4.03%
3.75	-C. COS1	-c.cc19	0.00 52.9	2.749	0.0013	0.0023	0.00244	4.703
3. 25	-0,0103	-C.C.Co	0.01033	3 - 733	0.0005	0.0010	0.00112	4.500
2.75	-0.0001	0.0000	0.00914	5.457	0.0014	0.0020	0.00244	4.474
7. 75	-0.004:	0.0047	0.00637	2.314	7.7013	0.0021	0.00737	4.777
1.75	0.0064	0.0064	C. 01 C84	2.965	0.0020	0.0019	0.00240	4.006
1. 25	טיר פיז • פי	0.0134	C. C1 3 m m	7.617	0.0020	0.0008	0.00215	20122
73	X-4CT	Y-ACT	TIO					
1.00	-0.0000	0.0039	0.00400					
7. 00	C.0042	C. C1.CA	0.01140					
								
HIZE	THICKNEY	S (1N)	1.647					

PROJECTILE LENGTH (IN) 18.671

71 IS CISTANCE FROM PASE (IN)

Z2 IS DISTANCE FROM NINSE (IN)



GUN PROJECTILE INSPECTION DATA 5/33 MK 64-0 LCT 79 PROJECTILE 85

INSPECTION DATE TO/16/70

-								
	(1851	ne	1	1	0015	IDF	1
71	Y-101		110	OIA	X-4CT		TTO	LIV
1.90	0.0)5/	-0.0032	0.00645	2,554	-0.0016	0.0019	0.00249	4.006
2. 90)		-0.0070	0.00305	3.372		0.0038	0.00300	5.121
3, 93	-	-0.0036	0.00570		-0.0C13	0.0035	0.00-08	5.174
4.00	0.0073		0.00732		-0.0013	0.0014	0.00151	4.996
5.50	0.0056		0.01015		-0.0026	0.0011	0.00242	4.350
5.90	0.0086		0.00095		-0.0003	0.0017	0.00157	4.959
7.90	n. nnes		0.01152		-0.0015	0.0017	3.00233	4.957
9,00	0.00%		0.00099		-0.0037	0.0018	0.00411	4.054
าว ์ เก	0.0057	0.0073	C. [[299		-0.0023	0.0020	0.00205	4.364
	(INST	9F	1	(nurs	IDF)
7 7	Y - 1 CT	Y-10T	TIP	DIA		Y-ACT	TIP	417
6,75	0.0073	0.001	0.01014	3.940	-0.001c	0.0014	0.00236	4.085
4.75	0.0011	0.0054	C. CC+71	2.005	-0.0032	0.0015	0.00353	4.290
3.75	C. CCAT	- C. CO 7 3	0.00636	1. 727	-0.0036	0.0014	0.00786	4.704
1.25	C. Out 24	-n.gnee	0.00400	2.6C7	-0.0035	0.0019	0.00394	4.580
7.75	-0.0001	-0.0085	C. CO 350	7.474	-0.0043	0.0019	0.00470	4.430
2.25	-0.0004	-0.0063	C. CCB31	7.3C2	-0.0036	0.0011	0.00274	4.200
1.75	0.307	-0.00 55	0.00989	2.094	-0.0037	0.00??	0.00440	4.000
1 24,	0.9913	-0.0053	C.CCE43	7.445	-0.0033	0.0009	0.00347	3 45 6
7 7	Y-1CT	Y-ACT	TIP					
1.00	-0.0000	-0.0000	0.00640					
7.00	-0.0:01	-0.0127	6.63542					
RASE	THICKVE	(141)	1.670					
טטר . 11	CTIL I	PHOTH (IN	1 16.654					
71 15	FFEFANC	L EDIN D	157 (11)					
77 19	DISTANC	LE EDUK M	25c (14)					•
73 [5	CICTANO	ר בטרא אי	OSE (IN)	FOR THRE	AD TIR			

NUM PROJECTILE INSPECTION DATA

5/38 MK 66-0 LCT 79 PROJECTILE B1

INSPECTION DATE 10/21/30

		· ·							
	2.0	-	INST	_)		CUTS	IDE	1
1	7)	X-ACT	Y-40 T	TIP	DTA-	X-ACT	Y-ACT	110	ETA
Α.	CO	-C.OC?1	- 6 - 60-50	0.00:00	2 (/)	0.0011	2 2227		
		-0.007		0.00300	2. C41		0.0007	0.00133	4.00
				0.00721		-0.0016		0.00272	5.121
	30		-C. CC14.	0.00644		-0.0040		0.004.09	E.124
•	_		-0.0066	0.00934		-0.0010		0.00117	4 ូល្ខេត
		-0.0004		0.00165		-0.0016		0.00179	4.059
	• 30	-	-0.0033	0.00404		0.0003		0.00075	4.056
		0.0044		C.CGFOI		0.0001		0.00014	4.054
	00.		-0.0014	0.00297	3.630	-0.0014	-0.0005	0.00145	4.054
4	• 90	0.000	-C.C01C	0.00745	3.940	-0.0007	-0.0006	0.00005	4.955
		(INST	DF	1	(nuts	105)
	7.2		Y-ACT	TIP	DIA		Y-ACT	TIP	C14
		, ,, ,		1.0	.,,,,,,	X-740, 1	1 - 111, 1	1.13	. 1 %
5	. 75	0.0050	-0.0010	0.00510	7.95	-0.0001	-0.0008	0.00001	4.402
		C. CC41		0.00427	3. 290	-0.0CC7	-0-0006	0.00093	4
		C. CO 33		0.00455		-0.0009		0.00032	4.700
3	25	-0.0019	-0.0023	G. CC374		-2.0026		0.00257	4.570
		-0.0047		0.00532	2.44	-0.001=	-0-0007	0.00164	4.438
		-0.0001		0.00237		-0.0014		0.00172	4. 74
		-0.0004		0.00484		-0.0020		0.00213	4 acr
		-0.0060		0.00470		-0.001=		0.00130	200
	•	•					0.0050	1761111	•
	7 2	x – 1 C T	Y- ACT	TIP					
1	C)	-0.0042	-0.0015	0.00466					
7,	()	-0.0107	0.0160	C. (2520					
U)	J C L.	THICKNES	(14)	1. FEC					
20		CTILE	**************************************						
J.,	ξ.,	CTICL E	TIGTH (TW)	16.65					
7 1	TS	PISTANO	г воги н	/Sc (191					
7 7	12	DISTANC	r colk At	SE (INI)		,			
77	15	DISTANC	ר בטרא אוי	SC (IN)	FOR THEE	VI) II5			

GUN PROJECTILE INSPECTION DATA
5/39 MK 66-0 LCT 79 PROJECTILE 82
INSPECTION DATE 10/29/70

NEXT.		INST	DE	1	(ine	1
71	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y- 4C T	TIP	CTA
1.00	-0.0004	-0.0072	C.00721	2.969	0.0021	0.0005	0.00215	4.784
2.90	-0.0019	-0.0073	0.00754			-0.0021	0.00270	5.126
3.00	C.0044	-C. COF4	C. CC 558	3.496		-0.0021	0.00304	F.127
4. cn		-C.01C2	0.01341	3. 41 C	0.0	0.0015	0.00150	4.094
5.90	0. 2040	-C.C1C9	0.01195	3.727	-0.0	0.0013	0.00130	4.958
5.20	0.0135	-3.C074	0.01435	3.941	-0.0001	0.0009	0.00001	4.055
7. 91		-0.0079	0.01365	3.921		0.0014	0.00143	4.957
9.50	0.0135	-0.0027	0.01191	2.025	-0.0014	0.0011	0.00170	4.055
J. 40	0.0110	-0.0017	0.01202		-0.0024	0.0012	0.00249	4.954
	(INST	9E		1(outs	10F	1
77		Y-ACT	TTR	714		Y- AC T	115	LLV.
5.74	C. OCAY	0.0016	0.00490	1.937	-0.0001	0.0012	0.00120	4.031
4.75	0.0070	0.0046	0.00906	3. 892	-0.0015	0.0019	0.00242	4. 20%
2.75	C. Ulas	0.0070	0.01363	3.757	-0.0018	0.0010	0.00004	4.704
3.75	0.0171	-0.0027	10.01745	3.430	-0.0019	0.0021	0.00277	4.501
7. 73	0.0135	-0.0060	0.02040	7.444	-0.0027	0.0013	0.00300	4.443
2. 25	6. 3266	-c.01C1	0.02321	3.211	-0.0027	0.0013	0.00300	4.202
1.75	C. 070.F	-C.0179	0.02528		-0.0C18	0.0021	0.20277	4.102
1. 25	0.0114	0.0174	0.01243	7.572	-0.0024	0.0018	0.00314	3
13	X-7L1	Y-101	Lio					
1.00	-0.0011	-0.0017	0.00202					
	G. 1000		0.00338					
RASE	THICKNES	SS LINIA	1.511					
			1 • 1 1					
פטרוי	CTTL : I	MOTH (TV	1 16.656		•			
71 19	CISTANO	E ESCM P	15E (IN)					
25, 10	DISTANC	ר בטרא א	OSE (TN)					•
73 15	רוקדאיור	ב בשרא א	nse (IN)	FOR THRE	AN TIR			

GUN PROJECTILE INSPECTION DATA 5/38 MK 66-0 LOT 70 PROJECTILE 83 INSPECTION DATE 10/19/70

		•						
	(INS	106)	(01179	SIDE	
7.1	X-ACT	Y-ACT	TIR	DIA	X-ACT	4.71	Tto)
				_		, 501	, (LIA
	-C. 0126	0.0167	0.01653	2.900	0.0011	0.2001	0.00110	4.047
	-0.00F5	0.0090	0.01055	3.357	0.0031		0.00213	5.125
	-0.0048	C.01C1	0.0111A	2.470	-C.0004		0.00054	5.132
	-0.0064	0.0117	0.01295	3.600	0.0008		0.00106	4.934
	-C.0034	0.0132	0.0136P	7.713	0.0017		0.00232	4.062
	C• 0003	0.0124	0.01240	3.927	0.0011	0.0012	0.00143	4.763
	-0.0015	C.0119	0.01100	3.921	0.0007	0.0009	0.00114	4.062
	-C.00?2	C.C130	0.01339	3. 926	0.0002	0.0005	0.00054	4.064
 ∂.)	-0.0022	0.0149	0.01506	3 633	0.0009	0.0005	0.00103	4.047
								•
	(1621	nf)	(nuts	IDF)
7 2	X - ACT	Y-ACT	TIP	DIA	X-ACT	Y-ACT	TIR	ΓΙΔ
	-c.n	C.CIER	C. C1 59C	3.932	0.0014	0.0	0.00140	4.000
4.75	C. 0003#		0.01263	3.880	0.0020	0.0008	0.00215	4.301
3. 75	0.0030	0.0051	0.00 = 02	2.7C=	C.0008	-0.0004	0.00089	4.704
			0.00445	3.591	-0.0002	-0.0004	0.00044	4.601
2.75	C. CCC#		C. C1 532	3.459	0.0014	-0.0006	0.00152	4.440
2. 25	-0.0018		0.03008	3.291	0.0004	-0.0002	0.00045	4.275
1.75	-C. CO21		0. C2530	2. C74	0.0012	-0.0007	0.00120	4.005
1. ?5	C. C.C.b.s	-0.0224	0.02407	2.612	0.0016	-0.0009	0.00194	7.432
7 2	X-ACT	Y-ACT	TID					
1 00	0 0014		_					
7 00	-0.0014	-0.0002	0.00141					
7 · (./)	-0.0017	0.0047	0.00500					
DACE	THICKNES	C (11)						
111 77	IPICKNIS	- (In.)	1.527					
PPCIO	ירדון רון ד	NICTE (TAIL	14 ///					
	TE TE	THE TENT	17.74					
				·				

THE TESTANCE FROM BASE (IN)

72 TS DISTANCE EPOM NOSE (TH)



GUN PROJECTILE INSPECTION DATA 5/38 MK 66-0 LOT 70 PROJECTILE 84

INSPECTION DATE 10/30/70

	(UE		-		IDE)
71	X-ACT	Y-4CT	TIR	DIA.	X-ACT	Y-ACT	TIR	ГТЛ
1.90	-0.0042	-0.0060	C. CO733	2. 495	0.0007	0.0004	0.00001	4.797
2.50	-0. CC77	C-C074	C.01064	3.381	0.0041	0.0015	0.00437	E 124
	-0.0027		0.00349	3.500	0.0009	0.0004	0.00003	R . 1 . 7
	-0.0067		0.00752		-0.000B	0.0007	0.00106	4.004
• .	-0.0044		C.C0728		-0.0C01	0.0005	0.00051	4.759
	-0.0026		0.00013	7. 947		0.0011	0.00163	4.741
	-0.0054		C. CC 981		-0.0014	0.0	0.00140	4 . 0 . 0
	-0.003m		0.00603		-0.0C12	0.0003	0.00124	4.059
	-0.0031		0.00253		-0.0021	0.0005	0.00214	4.940
	1	1851	ne	1	1	OUTS	10F	1
7 7		Y-ACT		DIA	•	Y-ACT	T12	CIA
		,	• 1 3	, , ,	,			
5 . 75.	-0.0326	-0.0002	0.00243	2.042	0.0008	0.0023	0.00046	4.004
4.75		-c.coc1	0.0014	2.807		0.0025	0.00297	4.0.11
	C.0015		0.00170		-0.0C14	0.0018	0.00223	4.705
3. 25		-0.0033	0.00333		-0.0014	0.0019	0.00729	4.000
•	-0.0027		0.0071 9		-0.0015	0.0018	0.00316	4.441
	-0.0		0.00600		-0.0008	0.0029	0.00301	4.778
1.75		-0.0056	C.COFF2		-0.0011	0.0020	0.00328	4.177
	0.0041		0.01230		-0.0007	0.0021	0.00221	2.234
••				•				·
73	¥-3CT	Y-401	* 0					
1.00	C 0017	-C.CC17	0.00240					
7.00	-	-0,0067	0.02530					
		• • • • • • • • • • • • • • • • • • • •						
RACE	THICKNE	55 (141)	1.501					
00 L'11	ECTILE 1	ENOTH (IN	1 16.655					
71 11	CISTANI	ië ebum b	ASE CINI					
70 .	C DICTANA		000 / 14:1					•
,, ,	2 1.121.450	ר בטטאין	1151 ([11]					
72 11	TISTANO	TE BROW V	OSE (IN)	FOR THE	EAN TIP			

GUN PROJECTILE INSPECTION DATA
5/39 MK 66-0 LOT 79 PROJECTILE 85

INSPECTION DATE 10/20/70

			DE				105	
71	X-4CT	Y-ACT	TIR	DTA	X-ACT	Y-ACT	TIO	CIA
1.90	-0.0025	0.0127	0.01294	3,017	0.0003	0.0002	0.00036	4.994
	0.000?		0.00950		-0.0049		0.00513	5.123
	-0.0032		0.00842		-0.0053		0.00533	F.126
	-0.0078		0.00259		-0.0022		0.00220	4.002
	-0.0043		0.00434		-0.0011		0.00130	4.054
	-0.0052	C.00C?	0.00521		-0.0C13		0.00159	4.750
	-0.0015		0.00155		-0.0004		0.00054	4.454
	-0.0022		0.00304		-0.0014		0.00179	4.056
	-0.0021		0.00324		-0.0005		0.00121	4.95.0
	-11611112	-01007	0.00	. • ±4.5	-0.000	-010061	0.00121	
	(INST	n=	1	(nuts	IDE)
72		Y-ACT			X- AC T		TIP	CIA
							-	
5.75	C. OOCA	-0.0014	0.00141	3.956	-0.0018	-0.0007	0.00193	4.732
4.75	C.0027	C. CO C4	0.00273		-0.0007	-0.0003	0.00076	4.040
3.75	0.0005	0.0062	0.0669		-0.0007		0.00071	4.703
3. 25	0.0056	0.0071	0.00904	3.655	-C.0009	-0.0001	0.00001	4.570
2.75	C. 0120	0.0077	0.01425		-0.0011		0.00112	4.427
2.25	0.0151	C.01C9	0.01954	3,326	-0.0002	0.0003	0.00036	4.278
1.75	0.0163	C.0140	0.02149	2. 967	-0.0003	-0.0	0.00030	4.096
1.25	0.0156	0.0057	0.01837		0.0003		0.00029	3.605
7.3	X-10T	Y-ACT	TP					
1.00	0. 2043	-0.0027	C.COFFIT					
7.00		-0.0064	0.01160					
. • (1/)	0.00	-540024	0.01100					
BASE	THICKNES	S (IN)	1.545					
			• • •					
DOCAL	CTILE L	NGTH (IN	1 14.455					
				•				
71 19	CISTANO	LE ESUN 6	ASE (IN)					
	•							
53. 13	CTSTANC	E ESCH A	OSF (TN)					

5/38 MK 66-0 LCT 80 PROJECTILE R1

INSPECTION DATE 10/26/70

•								
Z 1 .	X-ACT	TAS	IDE TIR)	V- AC 7	OUTS		;
21.	ATALL	T-AC	IIK	DIA	X-ACT	Y-ACT	TIR	DIA
1.90	-0.0110	C. 01CA	0.01528	3.057	0.0014	-0.0002	0.00141	4.984
2.90	-0.C1C9	0.0069	0.01290	3.381	0.0018	-0.0004	0.00184	5.124
3.90	-C.0104	0.0065	0.01226	3.497	0.0058	0.0001	0.00580	5.124
4.90	-0.CC79	C. CO46	0.00014	3.614	-0.0001	-0.0007	0.00071	4.984
5.90	-0.0042	0.0043	0.00601	2.724	0.0020	-0.0002	0.00201	4.960
6.90	-0.0049	C.0026	0.00555	3.842	0.0026	0.0008	0.00272	4.964
7. 90	-0.9045	C.OC17	0.00490	3.923	0.0025	0.0002	0.00251	4.963
8.90	-0.0011	-C.COC1	0.00110	3.924	0.0012	0.0010	0.00156	4.961
9.50	0.09 <i>27</i>	-C.00C3	0.00272	3.927	0.0	0.0005	0.00050	4.963
4								
	(TASI)		nuts)
7.2	X-ACT	Y-ACT	TIR.	. 014	X-ACT	Y-ACT	TIR	CIA
5.75	0.0039	-0.0027	0.00538	3.930	0.0028	0.0003	0.00282	4.983
4.75		-0.C052	0.00681	3.891	0.0005	-0.0017	0.00177	4.895
	-0.0021	0.0069	0.00721	3.735	0.0018	0.0013	0.00222	4.706
3.25	-0.0025	0.0143	0.01452	3.616	0.0017	0.0007	0.00184	4.584
2.75	0.0038	C.C139	0.01433	3.475	0.0016	0.0011	0.00194	4.441
2.25	0.0083	0.0062	0.01036	3.277	0.0017	0.0007	0.00184	4.279
1.75	0.0110		0.01100	2.933	0.0040	0.0005	0.00403	4.097
1.25	0.0032	-0.0000	0.00232	2.605	0.0027	0.0012	0.00295	3.895
Z3	X-ACT	Y-ACT	TTR					
1.00	0.0009	0.0012	0.00150					
7.00		-0.0050	0.02432					
	•							
BASE	THICKNES	SS (IN)	1.453					
PRCJE	CTILE LE	NGTH (IN	1 16.603					

Z1 IS DISTANCE FROM BASE (IN)

ZZ IS DISTANCE FROM NOSE (IN)

GIIN PROJECTILE INSPECTION DATA 5/38 MK 66-0 LCT 80 PROJECTILE 82 INSPECTION DATE 10/20/70

	(INST	DE)	(CUTS	IDE	1
7.1	X-ACT	Y-ACT	TTR	014	X-VC T	Y-ACT	TIR	CTA
1.90	-0.0010	-0.0056	C.COE49	3.020	-0.0002	-0.0004	0.00045	4.981
2.90	-C. CC45	C. COC2	C. CO660	3.378	-0.0	-0.0017	0.00170	5.125
3.90	-0.0061	· C.00C3	0.00611	2.496	-0.0017	-0.0010	0.00197	5.124
4.90	-0.0050	-0.0001	0.0000	3.61C	-0.0004	-0.0004	0.00057	4.982
5.90	-0.0056	C. 00C4	0.00561	3.726	0.0005	-0.0	0.00050	4.956
6. 90	-C.0059	-0.0009	0.00597	3.842	0.0003	-0.0013	0.00133	4.955
7.90	-0.0047	-C.CQC3	0.00471	3.927	-0.0005	-0.0008	0.00100	4.957
8.90	-0.0067	-0.0013	0.00682	3.930	0.0002	-0.0010	0.00102	4.054
9.90	-0.0054	-c•cuci	0.0540	3.936	-0.0002	-0.0011	0.00112	4.955
	(INSI	0E	1	(OUTS	IDE	1
7.2	X-ACT	Y-ACT	TIR	DIA	X-ACT	A- VC A	TIP '	CIA
5.75	-0.0041	0.0020	0.00456	3.741	0.0006	-0.0010	0.00117	4.983
4.75	-C.00?4	0.0025	0.00247	3.603	-0.0003	-0.0019	0.00192	4.889
3.75	-C.0011	0.0012	0.00163	3.771	-0.0	-0.0016	0.00160	4.702
3.25	-0.0030	0.0015	0.00335	3.646	0.0001	-0.0012	0.00120	4.579
2.75	-0.0030	-0.00(9	0.00291	3.4R?	-0.0008	-0.0011	0.00136	4.438
2.25	0.0010	-0.0033	0.00345	2.230	-0.0009	-0.0017	0.00132	4.276
1.75	0.0020	-0.0056	0.00008	2.849	0.0002	-0.002C	0.00201	4.095
1.25	-0 • C1 31	-0.0063	0.01454	?.575	0.0004	-0.0017	0.00175	3.895
7.3	X-ACT	Y-ACT	TIP					
1.00	-0.0045	C.00C2	0.00450					
7.00	-0.0038	0.0213	0.02164					

RASE THICKNESS (IN) 1. F31 PROJECTILE LENGTH (IN) 14.456

ZI IS DISTANCE FROM PASE (IN) .

ZZ IS DISTANCE FROM MOSE (IN)

5/38 MK 66-C LOT SO PROJECTILE B3

INSPECTION DATE 10/22/70

	(INSI	DF	1	1	OUTS	ine)
7.1	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	CIA
1.90	0.0034	C. 0154	C. 01 577	2.990	0.0018	0.0013	0.00222	4.977
2.90	0.0007	0.0127	0.01272	3.376	0.0002	-0.0035	0.00351	5.122
3.90	-0.0017	0.0129	0.01301	3.492	-0.0016	-0.0018	0.00241	5.124
4.90	0.0013	0.0137	0.01376	3.612	-0.0011	0.0004	0.00117	4.983
5.90	-0.003R	C.01C1	C.01C79	3.721	-0.0020	-0.0001	0.00200	4.957
6.90	-0.0052	0.0099	C.C1118	3.83.8	-0.0C28	0.0007	0.00289 .	4.959
7.90	-0.0050	C.CCSC	0.01109	3.922	-0.0008	0.0007	0.00106	4.957
8.90	-0.00 1	0.0083	C.CC974	3.925	-0.0027	0.0016	0.00314	4.955
9.90	-0.0051	0.0069	0.00858	3.930	-0.0024	0.0009	0.00256	4.957
	(INSI	DE)	(OUTS	IDE)
72	X-ACT	Y-4CT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
5.75	-0.0023	0.0055	0.00592	3.943	-0.0029	0.0011	0.00310	4.994
4.75	-0.0006	0.0064	0.00643	3.905	-0.0010	0.0018	0.00206	4.888
3.75	-C.0002	0.0106	0.01060	3.711	-0.0032	0.0009	0.00332	4.699
3.25	C. 0044	0.0086	0.00966	. 3.583	-0.0C19	0.0015	0.00242	4.577
2.75	0.0021	0.0067	0.00702	3.445	-0.0021	0.0013	0.00247	4.436
2.25	0.0033	0.0084	0.00902	3.266	-0.0C23	0.0017	0.00286	4.273
1.75	-0.0021	C.0131	0.01327	2.936	-0.0C20	0.0003	0.00202	4.091
1.25	0.0060	0.0075	0.00960	? . 598	-0.0018	0.0002	0.00181	3.889
23	X-ACT	Y-ACT	TIR					
1.00	-0.0047	0.0022	C.CO519					
7.00	-0.0068	0.0056	C.CC#81					
BASE	THICKNES	SS (IN)	1.495					

PROJECTILE LENGTH (IN) 16.655

Z1 IS DISTANCE FROM BASE (IN)

ZZ IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 80 PROJECTILE 84
INSPECTION DATE 10/19/70

	(INST	INF)	(OUTS	IDE)
7.1	X-ACT	Y-ACT	TIR	DIA	X-AC T		TIR	CTA
1.90	-0.0218	-0.0086	0.02344	2.934	0.0021	-0.0011	0.00237	4.985
2.90	-0.0112	-0.0110	0.01570	3.370	0.0001	-0.0043	0.00430	5.124
3.90	-C.0113	-0.0126	0.01692	3.486	-0.0016	-0.0040	0.00431	5.126
4. 90	-C.0044	-0.0033	0. CC550	3.642	-0.0031	-0.0018	0.00358	4.982
5.90	-0.0021	0.0021	0.00297	3.782	-0.0026	-0.0026	0.00368	4.956
6.90	-0.0030	-0.0061	0.00680	3.870	-0.0C14	-0.0031	0.00340	4.957
7.90	-C.0063	-0.0191	0.02011	3.932	-0.001ª	-0.0030	0.00350	4.955
8.90	-0.0089	-C.0228	0.02448	3.531	-0.0033	-0.0021	0.00391	4.956
9.90	-0.0122	-0.0258	0.03220	7.925	-0.0026	-0.0016	0.00305	4.957
	(INST	ne	1	(OUTS	IDE +)
22	X-ACT		TIP	DIA	X-ACT		TIR	DIA
5.75	-C.0112	-0.0338	0.03561	3.020	-0.0016	-0.0009	0.00194	4.983
4. 75	-0.01C7	-0.02c3	0.03119		-0.0030		0.00304	4.896
3.75	-C. 0109	-0.0225	0.02500	2.702	-0.0030	-0.0	0.00300	4.700
3.25	-0.0052	-0.0245	0.02505 .	3.575	-0.0021	-0.0003	0.00212	4.575
2.75	-0.0029	-0.0221	0.02326	3.435	-0.0023	0.0001	0.00230	4.432
2.25	-0.0009	-0.01F6	C. C1842	3.254	-0.0C21	0.0006	0.00218	4.271
1.75	-0.0008	-C.0184	0.01842	2.040	-0.0024	0.0004	0.00243	4.098
1.25	-0.0014	-0.0145	0.01457	2.576	-0.0021	0.0002	0.00211	3.836
23	X-VCT	Y-ACT	TIP					
i.00	-0.0050	-0.0024	0.00555	,				
		0.0001	C. CC74C					
			A 1914 "					

BASE THICKNESS (IN) 1.5%

PROJECTILE LENGTH (IN) 16.657

ZI IS CISTANCE FROM BASE (IN) .

ZZ IS FISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LCT 80 PROJECTILE 85
INSPECTION DATE 10/26/70

						4		į
	(INSI	DE	1	(CUTS	IDE)
7.1	X-ACT	Y-ACT	TIR	DIA	X-AC T	Y-ACT	TIR	CIA
1.90	-0.0027	-0.0079	0.00835	3.CC2	-0.0C27	0.0003	0.00272	4.985
2.90	0.0009	-C.01C8	C. 01 CR4	3.381	-0.0016	0.0001	0.00160	5.125
3.90	-0.0015	-0.0113	0.C114C	3.497	-0.0007	0.0015	0.00166	5.123
4.90	-0.0030	-C.CICS	0.01121	3.616	-0.0025	0.0002	0.00251	4.986
5.90	-0.0007	-0.0110	C.01102	3.72P	-0.0009	0.0006	0.00108	4.955
6.90	C. 00C1	-C.01C9	C. C1 C9 C	3. 843	-0.0023	-0.0006	0.00239	4.952
7.90	0.0034	-0.01C6	0.01113	3. 522	-0.0006	-0.0004	0.0007?	4.952
8.90	-0.0003	-C.C117	0.C117C	3.921	-0.0026	0.0001	0.00260	4.953
9.90	0.0024	-C+0104	0.01067	3.925	-0.0017	-0.0003	0.00173	4.952
	(INST	ng)	(0075	10E ÷)
7.2	X-ACT	Y-ACT	TIP	OTA	X-AC T	Y-ACT	TIR	CIA
5.75	C-0005	-0.CC55	0.00951	3.928	-0.0C15	-0.0002	0.00151	4.984
4.75	0.0037	-0.0073	C. CC818		0.0020	0.0015	0.00250	4.887
3.75	0.0052	-C.CORG	0.01031		-0.0017	0.0009	0.00192	4.599
3.25	0.0040	-0.0129	0.01351	3.624	-0.002C	0.0005	0.00206	4.576
2.75		-C.0154	C.01577		-0.0030	0.0001	0.00300	4.434
2.25	0.CO73	-C.0170	C.C1850	3.227	-0.0029	0.0002	0.00291	4.274
1.75		-C.0157	C.01699	2.844	-0.0027	0.0006	0.00277	4.093
1.25	0.0007	-0.0137	C. 01372		-0.0023	0.0008	0.00244	3.892
23	X-ACT	Y-ACT	TIR					
i.co	-0.0063	-c.coc1	0.00630	,				
7.00	-0.0286	C.0054	C. C2911					

BASE THICKNESS (IN) 1.543

PROJECTILE LENGTH (IN) 16.457

71 IS DISTANCE FROM BASE (IN) .

ZZ IS CISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/29 MK 66-0 LCT 91 PROJECTILE 81
INSPECTION DATE 10/21/70

	(INS	TOE)	(OUTS	IDE)
7.1	X-4CT	Y-ACT	TTP	DIA	X-ACT	Y-ACT	TIR	CIA
1. 90			0.01980	2.890	0.0015	-0.0005	0.00158	4.980
2.90	G. CScd	0.0012	C. 02 982	3.371	0.0001	-0.0009	0.00091	5.120
3.90	C.0235	C.00C4	0.02350	3.489	-0.0012	-0.0009	0.00150	5.120
4. 90	0.0071	-C.00E5	C. 01108	3.639	-0.0011	-0.0011	0.00156	4.982
5.90	-C.0117	-C.0184	0.02180	3.807	-0.0023	-0.0027	0.00355	4.960
6.90	-0.002R	-0.0172	C.C1743	3.897	-0.0015	-0.0025	0.00292	4.960
7.50	C.0108	-C.01C5	0.01506	3.950	-0.0019	-0.0031	0.00358	4.957
8. 50	0.0152	-0.0073	C. 01 FR6	3.946	-0.0C24	-0.0028	0.00369	44955
9.90	C.0141	-C.0059	C.01528	3.954	-0.0023	-0.0029	0.00370	4.956
	(INS	IDE	1	(nuts	IDE)
2.2	X-ACT	Y-ACT	TIR	DIA	X- AC T	Y- 4C T	TIR	CIA
5.75	0.0293	C. CO18	0.02836	3.940	0.0002	-0.0016	0.00161	4.984
4.75	C. 0257	0.0051	0.02620	3.909	-0.0015	-0.0024	0.00283	4.894
3.75	C. 02C7	C.0112	0.02354	3.731	-0.0021	-0.0025	0.00326	4.705
3.25	C.0215	0.0054	0.02347	3.612	-0.0022	-0.0026	0.00341	4.582
2.75	0.0224	0.0064	0.02330	3.483	-0.0028	-0.0018	0.00333	4.440
2.25	0.0713	0.0063	0.02221	3.311	-0.0020	-0.0031	0.00359	4.277
1.75	0.0195	0.0066	0.02055	3.007	-0.0023	-0.0022	0.00318	4.095
1.25	0.0171	0.0055	0.01956	2.637	-0.0009	-0.0025	0.00266	3.891
73	X-ACT	Y-ACT	TIR					
1.00	-0.0013	0.0017	0.00214					
7.CO	-0.0033	0.0029	0.00439					

BASE THICKNESS (IN) 1.598

PROJECTILE LENGTH (IN) 16.680

ZI IS DISTANCE FROM PASE (IN)

ZZ IS CISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA 5/38 MK 66-0 LCT 81 PROJECTILE 82 INSPECTION DATE 10/20/70

	(INST	DE	}	(QUTS	IDE)
Z 1	X-ACT		TIR	DIA	X-ACT	Y-ACT	TIR	CIA
1.90	-0.0032	0.0029	0.00432	2.895	0.0022	0.0001	0.00220	4.984
2.90	0.0192	0.0053	0.01992	3.376	0.0021	0.0003	0.00212	5.124
3.90	C.0107	0.0036	C. 01129	3.490	0.0023	-0.0004	0.00233	5.121
\$. 90	C.0069	0.0028	0.00745	3.602	0.0019	-0.0006	0.00199	4.985
5.90	0.0028	0.0017	0.00323	3.718	0.0015	-0.0008	0.00170	4.958
5.90	0.0020		0.00200	3. P34	0.0007	-0.0012	0.00139	4.957
7.90		-0.0020	0.00215	3.920	0.0013	-0.0010	0.00164	4.956
9.50	-0.0015	-0.0025	0.00392	3.924	0.0015	-0.0005	0.00158	4.959
3.90	-0.0051	-0.0039	0.00642	3.930	0.0007	-0.0011	0.00130	4.958
	(INST	NF)	(OUTS	IDE)
72	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	CIA
5.75	-0.0075	-C.CO25	0.00701	3.542	0.0011	-0.0008	0.00136	4.984
	-C.0081		C.CCRP2	3.911	0,,0022	-0.0002	0.00221	4.885
	-0.0116		C.01171	3.733	0.0029		0.00290	4.699
3.25	-0.0103	0.0018	0.01046	3.610	0.0012	-0.0006	0.00134	4.577
2. 75	-0.0086	0.0051	C.01000	3.475		-0.0001	0.00100	4.437
2. 25	-0.CC70	0.0047	0.00843	3.201	0.0001	-0.0004	0.00041	4.272
1.75	-0.0074	0.0029	0.00795	2.672	0.0010	-0.0011	0.00149	4.091
1.25	-C.0065	0.0031	C.CC72C	2.614	0.0014	-0.0015	0.00205	3.890
Z 3	X-ACT	Y-ACT	TIP					
i.00	0.0001	-0.0001	C. COC14					
7.00	-0.0099		0.01463					
BASE	THICKNES	SS ([N]	1.591					

PROJECTILE LENGTH (IN) 16.65.8

71 IS DISTANCE FROM PASE (IN)

22 IS DISTANCE FORM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 81 PROJECTILE 83
INSPECTION CATE 11/22/70

	(INST	DE		- 1	(DUTS	IDE)
7.1	X-ACT	Y-ACT	TTR		DTA	X-ACT	Y-ACT	TIR	CIA
1.90	-0.CO83	0.0185	0.02028	2	. 982	0.0013	0.0004	0.00136	4.984
2.90	-0. C057	C.0196	0.02041	. 3	. 37P	0.0001	0.0013	0.00130	5.A 24
3.90	-0.0075	C.017?	C.01876	3	.497	-0.0005	0.0027	0.00275	5.123
4.90	-0.0022	C.0135	C.C136F	3	. 609	0.0002	0.0004	0.00045	4.984
5.90	0.0014	C.01C5	C.C1059	7	. 725	0.0005	0.0015	0.00158	4.957
6.90	0.0043	O. CEO	U. LOG 8 8	- 3	. 941	0.0009	0.0011	0.00142	4.957
7.90	0.0053	C.CCE5	C. C1 CO2	3	.027	0.0002	0.0013	0.00132	4.955
8.50	0.0043	C. CO64	0.00771	3	. 933	0.0004	0.0014	0.00146	4.954
9.90	C.0079	C.0040	0.00877	3	. 936	0.0005	0.0021	0.00216	4.956
	(INST	nf		- 1	(nuts	IDE)
12	X-ACT	Y-4CT	TIR		אומ	X-AC T	Y- AC T	TIR	DIA
0 _0.			7 77 5. 5						
5.75	C.0102	C.COC1	C.C1 C20		• 63 c	-0.0C05	0.0004	0.00064	4.984
4.75		-C.00C4	C.01C71		. 904	0.0006	0.0017	0.00180	4.889
3.75	0.0092		0.00971	_	• 772	-0.0008	0.0013	0.00153	4.702
3. 25	0.0122		0.01250		651	-0.0011	0.0015	0.00186	4.578
2.75	0.0120	0.0018	0.01302		. 49?	0.0004	0.0016	0.00165	4.437
2.25	C.0053	0.0010	0.00935	_	. 249	0.0001	0.0016	0.00160	4.278
1.75	0.0051	-C.0015	0.00532		. 275	0.0002	0.0019	0.00191	4.095
1. 25	0.0092	-0.0C72	0.01168	2	. 570	0.0001	0.0013	0.00130	3.896
23	X-ACT	Y-ACT	TIP						
:									
	-C. CO17	0.0016	0.00233						
7.00	-0.016?	-C.C1C9	0.01947						

BASE THICKNESS (IN) 1.521

PROJECTILE LENGTH (IN) 16.656

ZI IS CISTANCE FROM HASE (IN)

Z2 IS CISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LCT 81 PROJECTILE 84
INSPECTION DATE 10/15/70

	(INST	ns	1	(0415	TOE)
71	X-ACT	Y-ACT	TIR	214	X-40 T	Y- AC, T	TTP	CIA
1,90	0.0119	0.0033	0.01223	3. C45	0.0038	0.0005	0.00383	4.996
2. 90	0.0020		0.00661	3.376	0.0034		0.00354	5.122
3.90	C- 0039		C. CO555	3.494		-0.0007	0.00269	5.122
4.90	0.0066		0.00706	3.610	0.0020		0.00230	4.993
5.90	0.0080		0.00999	3.725	0.0025	• • .	0.00252	4.950
6. 90	0.0087		0.00891	3.840	0.0049	0.0006	0.00494	4.961
7.90	0.0057		C. CC 575	3.923	0.0035	-0.0001	0.00350	4.959
8.50	0.0065	-C.00C2	C. CO 65C	3. 074	0.0021	0.0003	9.00212	4.959
9.00	0.0047	-0.0026	C. COF? 7	3. 924	0.0025	0.0007	0.00260	4.961
	(INST	9F)	(OUTS	IDE)
7.2	X-ACT	Y-ACT	TIP	014	X-10 T	Y-ACT	TIR	CIA
5.75	0.0079	-0.0037	C. CC972	3.020	0.0033	-0.0	0.00330	4.983
4.75	· -	-0.0033	C. CC711	3.912	0.0025	0.0003	0.00252	4.889
3.75		-0.00C7	0.00513	3.801	0.0018	0.0007	0.00193	4.703
3. 25		-0.0007	0.00604	3.490	0.0010	0.0011	0.00140	4.581
2.75		-0.0032	0.00865	3,529	0.0006	0.0017	0.00180	4.441
2.25		-0.0016	0.00014	3.265	0.0012	0.0010	0.00156	4.276
1.75	C. CCPO	0.0038	0.00884	2.901	0.0034	0.0008	0.00349	4.096
1.25	0.0073	0.0043	0. CG 947	2.641	0.0020	0.0008	0.00215	3.005
73	X-4CT	Y-ACT	TIR					
	·	-C.C014	0.00442					
7.00	-0.0088	C.0017	O.CORSE					

BASE THICKNESS (IN) 1.497

PROJECTILE LENGTH (IN) 16.649

Z1 IS CISTANCE FROM PASE (IN) .

ZZ IS CISTANCE FROM NOSE (IN)

5/38 MK 66-0 LOT 81 PROJECTILE B5

INSPECTION DATE 10/29/70

	(INS	IDE		(OUTS	IDE	1
Z 1	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-AC T	TIR	CIA
1 00	0.0138	0.0047	0.01458	2 027	0.0021	0.0008	0.00225	4.986
1.90				3.027				
2.90	0.0122		0.01392	3.384		-0.0002	0.00141	5.127
3.90	C. 0122		0.01220	3.498	0.0013		0.00177	5.125
4.90		-0.0024		3.6CP		-0.0003	0.00058	4.983
5.90		-0.0050	C.01181	3.722		-0.0005	0.00058	4.959
6.90		-0.005?	0.01503	3.835	0.0023	0.0	0.00230	4.959
7.90		-C.0044	0.01401	3.915		-0.0006	0.00171	4.958
8.90	0.0122	-0.0049	0.01315	3.917	0.0002	-0.0001	0.00022	4.958
9.50	0.0125	-0.0077	0.01468	3.924	0.0002	-0.0	0.00020	4.957
	(INS	TDE)	(IDF	1
Z 2.	X-4CT	Y-ACT	TIR	DIA	X-AC T	Y-ACT	TIR	DIA
5.75	0 0160	-0.0059	C.01515	2 620	0.0010	0.0006	0.00117	4 004
				3.928				4.984
4.75		-0.0050	C.01412	3.905	0.0012	0.0008	0.00144	4.886
3.75		-0.0058	0.01165	3.788	0.0001	0.0005	0.00051	4.697
3.25		0.0056	0.00828	. 3.671	C.0009	0.0015	0.00175	4.576
2.75			0.00701	3.508	0.0003	0.0016	0.00184	4.433
2.25		-0.0047	0.00810	3.244		0.0015	0.00151	4.273
1.75	O. COSP	-0.0066	0.01182	2. P76	C. 0001	0.0015	0.00150	4.091
1.25	0.0134	-0.0084	0.01582	2.614	0.0003	0.0017	0.00173	3.889
23	X-4CT	Y-ACT	TIP					
1 - 00	-0.0011	-0-0	C.CC110					
7.00		-0.0075	0.01922					
1 - 00	0.0111	-0.00012	0.01.7					

BASE THICKNESS (IN) 1.503

PROJECTILE LENGTH (IN) 16.664

ZI IS DISTANCE FROM BASE (IN) .

ZZ IS CISTANCE FROM NOSE (IN)

5/38 MK 66-0 LOT 82 PROJECTILE B1

INSPECTION DATE 10/2 /70

	(INST	DE)	(OUTS	IDE)
Z 1	X-ACT	Y-ACT	TIP	DIA	X-ACT	Y-ACT	TIR	CIA
		0.0055						
	-0.0121	0.0055	0.01329	2.928	- •	-0.0007	0.00073	4.983
		-0.0037	0.C1199	3.367		-0.0015	0.00234	5.123
-	-0.0147		0.01475	3.483		-0.0023	0.00251	5.127
	-0.0143		0.01431	3.599		0.0002	0.00020	4.986
	-0.0141		0.01415			-0.0006	0.00063	4.958
6.90	-0.0135	C.0011	0.01354	3.834	0.0012	-0.0004	0.00126	4.956
7.90	-0.0130	0.0031	0.01336	3.925	0.0010	-0.0006	0.00117	4.956
8.90	-0.0152	C.0029	0.C1547	3.929	-0.0012	-0.0006	0.00134	4.954
9.90	-0.0153	C.0020	0.01543	3.937	0.0033	0.0003	0.00331	4.956
	(INST	DF)	(OUTS	IDE)
22	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	CIA
	-0.0139		0.C1403	3.943	0.0034	0.0008	0.00349	4.983
	-0.COSA		0.00981	3.909	0.0034	0.0005	0.00344	4.885
	-0.0063	. •	0.00726	3.761	0.0021	0.0009	0.00228	4.697
	-0.0084		0.00948	3.649	0.0031	0.0010	0.00326	4.572
2.75	-C. 01C7	-0.0030	0.01111	3.513	-0.0009	0.0006	0.00108	4.434
2.25	-0.0135	-0.0013	0.01356	3.335	-0.0022	-0.0006	0.00228	4.274
1.75	-C.0142	C.00C2	.0.01420	3.013	0.0032	0.0008	0.00330	4.089
1.25	-C.CO91	-0.00 s8	0.00895	2.654	0.0039	0.0013	0.00411	3.897
23	X-ACT	Y-ACT	TIR				·	
1.00	C. CO21	0.0029	0.00350					
7.00	C.0052	C.0073	0.00866					

BASE THICKNESS (IN) 1.583

PREJECTILE LENGTH (IN) 16.662

Z1 IS CISTANCE FROM BASE (IN) .

ZZ IS DISTANCE FROM NOSE (IN)

JUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LOT 82 PROJECTILE 82

INSPECTION DATE 10/20/70

	(INST	ne	1	(OUTS	IDE)
Z1	X-ACT		TIR	DIA	X-4C T		TIR	CTA
1.90	C.0010	0.0073	0.00737	2.778	-0.0030	-0.0010	0.00316	4.982
2.90	0.0029	0.0089	0.00936	3.371	0.0014	-0.0012	0.00184	5.125
3.90	0.0023	0.0089	0.00933	3.489	0.0003	-0.0003	0.00042	5.125
4.90	0.0037	0.0084	0.C0918	3.61C	-0.0C29	-0.0	0.00290	4.983
5.50	0.0061	0.0083	C.01030	3.726	-0.0011	-0.0005	0.00121	4.957
6. 50	C-0094	0.0087	0.01281	3.845	-0.0019	-0.0006	0.00199	4.950
7.90	0.0110	0.0088	0.01409	3.938	-0.0023	-0.0005	0.00235	4.951
9.90	0.0090	0.0060	0.01092	3.942	-0.0030	-0.0004	0.00303	4.951
9.90	0.0113	0.0032	0.01174	3.949	-C.0C34	-0.0004	0.00342	4.95?
	(INS	ne	1	(OUTS	IDE)
7.2	X-ACT	Y-ACT	TIP	010	X- AC T	Y-ACT	TIR	DTA
3.75	C. 0108	-0.0024	0.01106	3.955	-0.0018	-0.0	0.00180	4.982
4.75	C.0115	-0.0029	0.01171	3.907	-0.0028	0.0001	0.00280	4.889
3.75	0.0096	C. CO88	0.01302	3.721	-0.0027	0.0004	0.00273	4.699
3.25	0.0091	0.0096	0.01323	3.591	-0.0035	0.0	0.00350	4.576
2.75	0.0069	0.0117	0.01358	3.457	-0.0029	0.0003	0.00292	4.434
2. 25	0.0065	0.0205	0.02151	2.280	-0.0026	0.0002	0.00261	4.275
l.75	0.0061	0.0310	0.03159	2.962	-0.0030	-0.0006	0.00306	4.093
1.25	0.0104	0.0231	0.02533	2.623	-0.0021	0.0003	0.00212	3.804
23	X-ACT	Y-ACT	TIR					
1. CO	-0.0065	0.0006	0.00453					
7.00	-0.0064	-0.0041	0.00760					
1465	THECHNE		1 (05					

BASE THICKNESS (IN) 1.609

PROJECTILE LENGTH (IN) 16.706

- 11 IS DISTANCE FROM PASE (IN) .
- 12 IS DISTANCE FROM NOSE (IN)
- 13 IS DISTANCE FROM NOSE (IN) FOR THREAD TIR

5/38 MK 66-0 LOT 82 PROJECTILE 83

Z1 IS CISTANCE FROM BASE (IN) .

23 IS CISTANCE FROM NOSE (IN) FOR THREAD TIR

Z2 IS DISTANCE FROM NOSE (IN)

INSPECTION DATE 10/21/70

	(INST	DE)	(OUTS	IDE)
Z 1	X-VCT	Y-ACT	TIR	014	X-ACT	Y-ACT	TIR	CIA
1 90	-0.0028	C COC3	0.00282	2 053	0.0005	-0.0	0.00050	4.980
	-0.0069		0.C1770		0.0058		0.00599	5.120
	-0.0031		0.01336	3.490		-0.0024	0.00373	5.120
	-0.0028		0.01019		-0.0005		0.00130	4.983
	-0.0015		0.00755		-0.0009		0.00098	4.956
	-0.0017		0.00633		-0.0007		0.00130	4.959
	-0.0017		0.00280		-0.001C	0.0011	0.00130	4.957
	0.0006		0.00267		-0.0019		0.00248	4.954
	0.0006		0.00316		-0.0019		0.00248	4.956
9 90	0.0000	-0.0031	0.00316	20.471	-0.0018	0.0015	0.00254	4.700
	(INST	ne)	(CUTS	IDE)
Z ?	X-ACT	Y-ACT	TIP	DIA	X-ACT	Y-ACT	TIR	CIA
5.75	C.0023	-0.0C27	0.00355	3.931	$0 \cdot 0$	0.0015	0.00150	4.986
4.75	C.00C4	-c.0010	0.00108	3.896	-0.0007	0.0032	0.00328	4.889
3.75	-0.C035	C.CO29	0.00455	3.711	-0.0035	0.0027	0.00442	4.702
3.25	-0.0009	0.0068	0.00686	3.581	-0.0029	0.0040	0.00488	4.580
2.75	-C. CO19	0.0096	0.00979	3.447	-0.0030	0.004C	0.00500	4.438
2.25	-0.0037	0.0052	0.00992	. 3.268	-0.0028	0.0031	0.00418	4.276
1.75	-C.0045	0.0050	0.01006	2.959	-0.0021	0.003R	0.00434	4.094
1.25	0.0014	0.0073	0.00743	2.6C1	-0.0023	0.0039	0.00453	3.892
23	X-ACT	Y-ACT	TID					
1.00	-0.0074	0.0057	0.00934					
7.00	-0.0290	C.C163	0.03327					
	•							
BASE	THICKNES	SS (IN)	1.531					
PRCJ	FCTTLE LE	ENGTH (IN) 16.66P					

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 82 PROJECTILE 84
INSPECTION DATE 10/21/70

	(INST	ne	1	(OUTS	IDE	1
21	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	CTA
1.90	-0.0052	0.0066	0.CO84C	2.976	0.0022	-0.0004	0.00224	4.983
2.90	-0.0	0.0056	0.00960	3.376	0.0008	-0.0023	0.00244	5.125
3.90	-0.0061	0.0078	0.00990	3.489	-0.0005	-0.0020	0.00206	5.125
4.90	-0.0065	0.0065	0.00919	3.604	0.0020	0.0005	0.00206	4.982
5.90	-0.0069	0.0055	0.CC882	3.721	0.0017	0.0002	0.00171	4.952
6.90	-0.0069	0.0052	C. CC864	3.841	0.0023	0.0003	0.00232	4.949
7.90	-0.0077	C.0047	0.00902	3.521	0.0022	0.0007	0.00231	4.951
8.90	-0.0086	0.0045	C. C0971	3.922	0.0011	-0.0002	0.00112	4.945
9.90	-0.0083	0.0047	0.00954	3.926	0.0024	0.0006	0.00247	4.950
	(INST	DE	1	(nuts	IDE)
7.2	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	CIA
_	-0.0030		0.CO50C	3.931	0.0018	0.0010	0.00206	4.982
	-0.0014	C. CO13	0.00191	3.887	0.0024	0.0007	0.00250	4.893
	-0.0011		0.00211	3.691	0.0016	0.0007	0.00175	4.698
	-0.0036		0.00657	3.556	C. OC11	0.0004	0.00117	4.578
	-0.0079		C. C1 C76	3.417	0.0009	-0.0006	0.001C8	4.436
	-0.00 AR		C.01054	3.236	0.0020	0.0005	0.00206	4.277
1.75	-0.0076	-C.0052	0.00921	2.924	0.0033	0.0013	0.00355	4.095
1.25	0.0070	C.0063	0.00942	2.577	0.0016	0.0006	0.00171	3.995
7.3	X-ACT	Y-ACT	T [P				77	
	-0.CC57	C-0020	0.00604					
7.00	-0.0037	C.0041	0.0055?					

BASE THICKNESS (IN) 1.528

PROJECTILE LENGTH (IN) 16.654

Z1 IS DISTANCE FROM BASE (IN) .

ZZ IS DISTANCE FROM NOSE (IN)



GUN PROJECTILE INSPECTION DATA 5/38 MK 66-0 LOT 82 PROJECTILE B5 INSPECTION DATE 10/27/70

	(TAST	ne)	1	01170		
Z 1	X-ACT	Y-ACT	TIR	014	X- 4C T	CUTS	TIR	CIA
			• •		A 100 Y	1-AC 1	* * * *	UIA
	-0.0051	-C.00C9	0.00518	2.962	0.0007	0.0007	0.00099	4.984
2.90	-0.0020	0.0021	0.00290	3.371		0.0042	0.00547	5.125
	-0.0033	0.0037	0.00495	3.487	0.0011	0.0030	0.00320	5.126
	-0.0062	0.0034	0.00707	3.6C3	0.0013	0.0010	0.00164	4.985
	-0.0046	0.0042	0.00623	3.71 F	0.0007	0.0014	0.00157	4.949
	-0.0017	0.0067	0.00691	3.835	0.0013	0.0009	0.00158	4.949
	-0.0032	0.0065	0.00 90 P	3. 923	0.0007	0.0011	0.00130	4.949
	-0.0028	0.0095	0.0000	3.026		0.0010	0.00224	4.949
9.90	-0.0013	0.0051	0.00919	3.033	-0.0C12	0.0008	0.00144	4.949
	.= = -	1001	0.5					
2.2	X-ACT	INSI	DF)			10E	1
4.2	A-401	1-461	114	DIA	X-4C T	Y-ACT	TIR	CIA
5.75	0.0022	0.0065	C. CO486	3, 638	0.0001	0.0012	0.00120	4.984
4.75		0.0065	98400.0	3.505		0.0011	0.00178	4.883
	-C. 0026	0.0045	0.00520		-0.0015	0.0012	0.00192	4.696
	-0.0071	0.0053	C.CCRR4		-0.0006	0.0014	0.00152	4.574
2.75	-C.0103	C.CCEC	C. C1 304		-0.0020	0.0010	0.00224	4.433
2.25	-0.C112	C.CO71	0.01324		-0.0019	0.0012	0.00225	4.272
	-C.01C5	C.0057	C. C1105		-0.0019	0.0011	0.00211	4.090
1.25	-0.C128	O.COAR	0.01553	2.500	-0.0000	0.0009	0.00127	3.890
113		•						
23	X-ACT	Y-ACT	TID					
1.00	0 0003	0.0034	0.0004					
7.00		-C.CO34	0.00241					
7.00	0.0074	-C.0044	C.CLat I					
BASE	THICKNES	SITNI	1.54C					
•			• • • • •					
PROJE	CTILE LE	NGTH (IN	1 16.471					
			·					
Z1 [S	PISTANC	F FROM P.	ASE (THI)					
	F-							
12 12	CISTANC	E EDUN N	USE (14)					

5/38 MK 66-0 LOT 83 PROJECTILE B1

INSPECTION DATE 10/19/70

	(INST	DF)	(nurs	10E)
Z1	X-ACT	Y-ACT	TIR	DIA	X-AC T	Y-ACT	TIR	CIA
1.90	-0.0064	0.0058	0.00864	2.983	0.0019	0.0008	0.00206	4.983
2.90	-0.CO10	0.0078	0.00786	3.367	-0.0006	0.0014	0.00152	5.125
3.90	-0.0041	C. CC67	0.00785	3.488	0.0014	0.0014	0.00198	5.125
4.90	-0.0051	0.0066	0.00834	3.610	0.0007	0.0011	0.00130	4.984
5.50	-0.0053	0.0029	0.00658	3.717	0.0010	0.0010	0.00141	4.955
6.90	-0.0083	0.0063	0.01042	3.834	0.0017	0.0005	0.00177	4.954
-	-0.0039		0.00732	3.920	0.0007	0.0015	0.00166	4.954
8.90	-0.0042	0.0073	0.00842		-0.0001	0.0006	0.00061	4.954
9.90	-0.0023	0.C052	0.00948	3.932	0.0006	0.0011	0.00125	4.953
	(INSI	DF)	(nuts	IDE)
7.2	X-ACT	Y-ACT	TIR	DTA	X-ACT	Y-ACT	TIR	CIA
5.75	-0.0013	C.CC59	0.00998	3.939		0.0016	0.00160	4.984
4.75	C.00C5	C.01C7	0.01071	3.894		0.0021	0.00214	4.886
3.75	0.0072	0.0119	0.01391		-0.0007	0.0015	0.00166	4.701
3.25	C. 0100	0.0111	0.01494		-0.0007	0.0016	0.00175	4.576
2.75	0.0138	0.0093	0.01664		-0.0013	0.0009	0.00158	4.434
2.25	0.0094	0.0110	0.01447		-C.0C04	0.0012	0.00126	4.274
1.75	C. CO88	0.0110	0.01409		-0,0004	0.0009	0.00098	4.092
1.25	-0.0066	0.0121	0.01378	2.586	-0.0009	0.0020	0.00219	3.891
7.3	X-ACT	Y-ACT	TIR					
	-0.0018		0.00211					
7.00	-0.0060	-0.0024	0.00646					

BASE THICKNESS (IN) 1.521

PROJECTILE LENGTH (IN) 16.663

21 IS DISTANCE FROM BASE (IN)

22 IS DISTANCE FROM NOSE (IN)

SUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LOT 83 PROJECTILE 82

INSPECTION DATE 10/19/70

	(INSI	DE)	(OUTS	IDE)
Z1	X-ACT		TIR	DIA	X-ACT	Y-ACT	TIR	DIA
1.90	0.0067	-0.0019	0.00696	2.891	0.0039	0.0008	0.00398	4.984
2.90	0. CO 58	0.00C1	0.00580	3.368	0.0022	0.0025	0.00333	5.124
3.90	0.0055	0.0003	0.00551	3.488	0.0027	0.0032	0.00419	5.122
4.90	0.0096	0.0025	0.00992	3.615	0.0016	0.0003	0.00163	4.986
5.90	0.0050	0.0008	0.00506	3.725	0.0036	0.0007	0.00367	4.951
6.90	0.0001	0.00C7	0.00071	3.835	0.0041	0.0012	0.00427	4.950
7. 90	-0.00C7	0.0012	0.00139	3.924	0.0037	0.0011	0.00386	4.950
8.90	-0.0002	0.0003	0.00036	3.929	0.0032	0.0011	0.00338	4.949
9.90	-0.0008	-0.0018	0.00197	3.932	0.0032	0.0013	0.00345	4.951
	(INSI	DE)	(outs	10E)
12	X-ACT	Y-ACT	TIR	DIA	X-AC T	Y-ACT	TIR	A 10
			4					
		-0.0054	0.00549	3.942	0.0034	0.0024	0.00416	4.983
	-0.0017		0.00538	3.909	0.0055	0.0027	0.00613	4.882
	-0.0026		0.00375	3.721	0.0040	0.0023	0.00461	4.696
	-0.0054	0.00C8	0.00546	3.592	0.0032	0.0019	0.00372	4.574
	-0. CO40	0.0037	0.00545	3.459	0.0038	0.0020	0.00429	4.432
	-0.0036	0.0078	0.CO859	3.286	0.0037	0.0031	0.00483	4.273
1.75	0.0027	0.0156	C. 01583	2.973	0.0040	0.0022	0.00457	4.092
1.25	0.CO50	0.0211	0.C2168	2.611	0.0046	0.0032	0.00560	3.891
73	X-ACT	Y-ACT	TIR					
1.00	0.0018	-0.0020	0.00269					
7.00		-C.0022	0.00510					

BASE THICKNESS (IN) 1.525

PROJECTILE LENGTH (IN) 16.657

Z1 IS DISTANCE FROM BASE (IN)

22 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LCT 83 PROJECTILE 83.
INSPECTION DATE 10/20/70

	(INST	DF)	(OUTS	IDE)
7.1	X-ACT	Y-ACT	TIR	DIA	•	Y-ACT	TIR	CIA
			_				•	
1.90	0.0079	-0.C258	C. 03083	2.952	0.0001	0.0008	0.00081	4.984
2.90	C. 0054	-C.015A	0.02052	3.367	-0.0002	-0.0008	0.00082	5-124
3.90	0.0063	-0.0237	0.02452	3.485	0.0002	0.0	0.00020	5.121
4.90	-0.0037	-0.0142	0.01467	3.632	0.0	-0.0003	0.00030	4.985
5.90	-0.01C1	0.0023	C.01036	3.798	0.0006	0.0009	0.00108	4.960
6.90	-0.0049	-0.0051	0.00707	3.896	-0.0004	0.0002	0.00045	4.956
7. 90	-0.0019	-0.0135	0.01363		-0.0007		0.00099	4.958
8.90	-0.0023	-0.0148	0.01516	3.954	-0.0015	-0.0001	0.00150	4.957
9.90	0.0061	-0.0240	0.02476	3.939	-0.0011	0.0005	0.00121	4.950
	(INST	DE)	-		IDE)
7.2	X-ACT	Y-ACT	416 .	DIA	X-ACT	Y-ACT	TIR	DIA
								27.2
5.75		-0.0383	0.04312	3.913		0.0008	0.00094	4.982
4.75		-0.0324	.0.C3776		-0.001C	0.0008	0.00128	4.887
3.75		-0.0125	0.02046		-0.0C16	0.0012	0.00200	4.701
3.25		-0.0022	0.01734		-0.0030	0.0008	0.00310	4.581
2.75	0.0159	0.0023	0.01607		-0.0032	0.0002	0.00321	4.438
2.25	0.0147	0.0093	C.01739	3.221	-0.0024	0.0005	.0.00245	4.278
1.75	0.0099		C.C2028	2.895	-0.0020	0.0003	0.00202	4.097
1.25	0.0009	0.0182	0.01822	2.579	-0.0014	0.0004	0.00146	3.897
23	X-ACT	Y-ACT	TIR					
1 00	0.0020	0 0037	0.00404					
		-0.0027	0.00404					
r • 00	-0.0027	-0.0278	0.02793					

BASE THICKNESS (IN)

PROJECTILE LENGTH (IN) 16.670

ZI IS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 83 PROJECTILE 84
INSPECTION DATE 10/22/70

	(INS!	DE)	(OUTS	IDE)
21	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	CIA
1.90	-0.0276	0.0053	0.02810	2.586	-0.0003	0.0005	0.00058	4.993
	-0.0327		0.03286	3.377		0.0003	0.00067	5.122
	-0.0274	0.0013	0.02743		-0.0021	2.0007	0.00221	5.120
	-0.0255	C-0010	0.02552		-0.0031	0.0012	0.00332	4.983
	-0.0167	0.CO24	0.01687		-0.0020	0.0002	0.00201	4.950
6. 90	-0.0139	0.0028	0.C1418	3.907	0.0002	0.0004	0.00045	4.962
	-0.0174	C. CO 28	0. C1762	3.955	-0.0014	0.0001	0.00140	4.960
8.90	-0.0164	0.0027	0.01681	3.961	-0.0020	0.0003	0.00202	4.959
	-0.0144	0.0035	0.01482	3.969	-0.0027	0.0010	0.00288	4.951
	•					01170		
	(INSI	_)	(OUTS)
22	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	CIA
5.75	-0.0242	0.0019	0.02427	3.926	-0.0C19	0.0009	0.00210	4.985
- •	-C.05C6	0.0024	C-02C74		-0.0015	0.0011	0.00186	4.897
	-0.0054	C. 0061	0.01121		-0.0017	0.0015	0.00227	4-704
	-0.0010	0. CO49	0.0500		-0.0026	0.0016	0.00305	4.581
2.75	0.0056	C-0028	0.0626	· -	-0.0017	0.0013	0.00214	4.439
2.25	0.0166	C-C017	0.01074		-0.0022	0.0023	0.00318	. 4.277
1, 75	0.0159	C-0011	0. C1594	2.962	-0.0015	0.0018	0.00234	4.095
1 - 25	0.0200	0.0076	C.C2140	2.594	-0.0032	0.0018	0.00367	3.894
1	J							
23	X-ACT	Y-ACT	TIR					
1.00	-C. 0020	0.0022	0.00297					
7. CO	-0.0165	-C.01C3	0.02117					
			0					

BASE THICKNESS (IN) 1.544

PROJECTILE LENGTH (IN) 16.663

ZI IS CISTANCE FROM RASE (IN)

ZZ IS CISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA :
5/38 MK 66-0 LOT 83 PROJECTILE 85
INSPECTION DATE 10/26/70

	(INSI	DE)	(OUTS	IDF)
71	X-ACT	Y-ACT	TIR	DIA	X-AC T		TIR	DIA
1.90	-0.0111	-0.0050	C.01217	2.541	0.0015	0.0003	0.00153	4.986
2.90	-0.0104	0.0027	C. 01 C74	3.370	0.0029	0.0031	0.00424	5.122
3.90	-0.0091	C.0030	0.CO958	3.485	0.0026	0.0045	0.00520	5.121
4.90	-0.0072	0.0045	0.00849	3.605	0.0007	-0.0002	0.00073	4.984
5.90	-0.0060	0.0071	0.00930	3.72C	0.0017	0.0018	0.00248	4.958
6.50	-0.0043	0.0064	0.00771	3.842	0.0007	0.0005	0.00086	4.962
7.90	-0.0036	C.0082	0.00896	3.925	0.0002	-0.0001	.0.00022	4.959
8.90	-0.0043	0.0057	C. 01 C61	3.930	0.0015	0.0016	0.00219	4.958
9.90	-0.0077	0.0058	0.01246	3.932	-0.0005	0.0010	0.00112	4.958
	(INST	DE)	(OUTS	IDE)
7.2	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
5.75	-0.0069	0.0056	0.01182	3.937	0.0007	0.0015	0.00166	4.985
4.75	-0.0020	0.0081	0.00834	3.895	0.0019	0.0013	0.00230	4.888
3.75	0.0074	0.0065	0.00985	3.753	-0.0	0.0021	0.00210	4.702
3.25	0.0119	0.0028	0.01222	3.628	-0.0001	0.0018	0.00180	4.579
2.75	0.0133	C. 0014	0.01337	3.471	-0.0	0.0011	0.00110	4.436
2.25	0.0149	0.0030	0.C1520	3.229	-0.0C03	0.0021	0.00212	4.273
1.75	0.0176	C.0056	0.C1847	2.849	0.0C13	0.0018	0.00222	4.092
1.25	0.0160	0.0083	0.01802	2.573	0.0015	0.0017	0.00227	3.889
73	X-ACT	Y-ACT	TIP					
1.00	-0.0014	0.0027	0.00304					
7. CO	0.0017	0.0043	0.00462					

BASE THICKNESS (IN) 1.548

PROJECTILE LENGTH (IN) 16.648

ZI IS DISTANCE FROM BASE (IN)

72 IS CISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/38 MK A6-0 LCT 84 PROJECTILE BL

INSPECTION DATE 10/23/70

	(INS	IDE)	(OUTS	IDE)
7.1	X-ACT	Y-ACT	TIR	DIA	. X-ACT	Y-ACT	TIR	CIA
	0 0000	0.00.00	0.00333	2 677	0 0000	0.000	0 00113	
1.90		-C.00C3	0.00222		-0.0008		0.00113	4.985
2.90		-0.0164	0.C1141	3.376			0.00190	5.127
3.90	· -	-0.C097	0.01069		0.0006		0.00063	5.124
4.90		-0.0092	C.01052		-0.0014		0.00140	4.986
5.90	· -	-C. CO86	0.01135	-	-0.0011		0.00117	4.955
6.90	0.0068	-0.0073	C. CC 998	3.840	-0.0019	-0.0002	0.00191	4.955
7.90	0.0041	-0.0068	0.00794	3.922	-0.0C11	-0.0002	0.00112	4.953
8.50	0.0030	-0.0056	0.00635	3.921	-0.0020	0.0004	0.00204	4.953
9.90	0.0030	-0.0042	0.00516	3.923	-0.0018	0.0002	0.00191	4.954
	(INST	IDE	1	(OUTS	TDE)
7.2	X-ACT	Y-ACT	TIR	DIA	X- AC T	Y-ACT	TIR	CIA
5.75	C.0046	-0.0025	0.00524	3.931	-0.0C12	0.0004	0.00126	4.985
		-0.0014	0.00377	3.999	-0.001C	0.0006	0.00117	4.883
		-C. COC5	0.00130		-0.0007	0.0010	0.00122	4.698
	-0.0019		0.00283		-0.0016	0.0010	0.00189	4.575
		-0.0053	0.00554		-0.0022	0.0013	0.00256	4.434
		-0.0043	0.00659		-0.0030	0.0016	0.00340	4.270
		-0.0030	C.CC 568		-0.0017	0.0010	0.00197.	4.039
		-0-0069	0.01742		-0.0015	0.0010	0.00180	3.896
1027	-0.011111	-08000	0.01.146	5.00	-0.001.7	0.0010	0.00250	
23	X-ACT	Y-ACT	TIR					
1.00	-0.0055	0.0036	0.00657					
7.00	-0.0019	0.0269	0.02697					

BASE THICKNESS (IN) 1.524

PROJECTILE LENGTH (IN) 16.668

Z1 IS CISTANCE FROM PASE (IN)

Z2 IS DISTANCE FROM NOSE (IN)

5/38 MK 66-0 LCT 84 PROJECTILE 82

INSPECTION DATE 10/30/70

	(INS	ne		1	OUT	105	
Z 1	X-ACT	Y-ACT	TIR	DIA	X-ACT	OUT!		1
			• •	014	7-4C I	Y-ACT	TIR	DIA
1.90	0.0024	0.0060	0.00646	2.975	-0.0007	0.0011	0.00100	
2.90	-0.0020	0.0089	0.00912	3.381	C.0006		0.00130	4.984
3.90	-0.0	0.0062	0.00620	3.498	0.0008	0.0001	0.00061	5.123
4.90	0.0049	0.0027	0.00559	3.614			0.00100	5.123
5.90	0.0075	C.0025	0.00791	3.728			0.00192	4.986
6.90	0.0077	0.0005	C. 00772	3.845	0.0008	0.0001	0.00081	4.956
7. 90	C.C084	0.0020	0.00863		0.0013	-0.0014	0.00191	4.959
8.90	0.0089	0.0013	0.00899	3.925	0.0023		0.00231	4.958
9.90	C. 0089	0.0014	0.00901	3.929	-0.0002		0.00036	4.958
		0.0014	0.00401	3. 934	0.0003	-0.0004	0.00050	4.958
	(INST	n.E					
7.2	X-ACT	Y-ACT		,	(OUTS	10E)
*- '=	A 461	1-461	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
5.75	C.0060	0.0010	0.00/00					•
4.75	C.0043		C. CO608	3.942	C.0007	0.0003	0.00076	4.985
3.75		0.0002	0.00430	3.898	0.0019	-0.0005	0.00196	4.890
	-0.0033	-0.0016	0.00213	3.774	0.0018	-0.0006	0.00190	4.704
			0.00376		-0.0001		0.00061	4.581
	-0.0067		0.00705	3.500	-0.0014		0.00149	4.438
1 76	-0.0079	-C.0034	0.00851	3.271	C. 0C01	-0.0005	0.00051	4.277
1 25	-C.0068	-0.0051	0.0850	2.889	0.0005	-0.0006	0.00078	4.096
1.20	-0.0063	-0.0154	C. 01664	2.581	0.0028	0.000R	0.00291	3.893
-								20,73
23	X-ACT	Y-ACT	TIR					
1 00								
		-0.0015	0.00446					
7.00	-0.0183	-C.0170	C. 02498					
		•						

BASE THICKNESS (IN) 1.550

PROJECTILE LENGTH (IN) 16.662

E1 IS DISTANCE FROM BASE (IN)

72 IS CISTANCE FROM NOSE (IN)

5/38 MK 66-0 LOT 84 PROJECTILE B3

INSPECTION DATE 10/19/70

	· (INST	nF	. = =)	(OUTS	106)
Z 1	X-ACT	Y-ACT	TIR	DTA	X-ACT	Y-ACT	TIR	DIA
	0 0050	0.01/0	0.01.05	0 054	0.001/		0 001/0	
1.90		-C.0162	0.01495	2.954	0.0014	0.0005	0.00149	4.984
2.90		-C.02CA	C.02066	3.357	0.0045	0.0018	0.00485	5.123
3.90		-0.0213	0.02177	3.479	0.0041	0.0018	0.00449	5.125
4.90	0.0060	-0.0209	0.02174	3.598	0.0043	0.0003	0.00431	4.983
5.90	0.0006	-C.0127	0.01271	3.731	0.0022	-0.0001	0.00220	4.958
6.90	0.0014	-C.C080	0.00901	3. 853	C. CO1 C	0.001?	0.00156	4.960
7.90	0.0033	-0.0151	0.01546	3.926	0.0037	-0.0001	0.00370	4.956
8.90	0.0040	-0.C147	0.01523	3.931	0.0029	0.0001	0.00290	4.954
9.90		-0.0179	C.01812	3.935		-0.0004	0.00313	4.959
		3000					.,	
	(INSI	DF)	(DUTS	IDE)
Z 2	X-ACT	Y-ACT	TIP		X-ACT	Y-ACT	TIR	CIA
5.75	0.0094	-0.0267	0.03020	3.926	0.0027	-0.0009	0.00285	4.993
4.75	C.0072	-C.0273	0.02823	3. 954	0.0039	-0.0009	0.00400	4.891
3.75	-C.00C8	-0.0231	0.02311	3.722		-0.0008	0.00379	4.705
	-0.0011		0.01863	3.605	0.0013	-0.0000	0.00210	4.582
	-0.0023		0.01114	3.480		-0.0003	0.00232	4.440
	-0.0041		C.CC67C	3.308		-0.0002	0.00321	4.279
	-C.0019		0.00330	2.995		-0.0011	0.00396	4.095
	-0.0022		0.0639	2.659		-0.0013	0.00300	3.893
***	0000	0.000		200	0.002	0.0013	0.00304	•
Z 3	X-ACT	Y-ACT	TJR					
1 - 00	-0.0027	-0-0011	0.00252					
	-0.0232		C.02375					
7 8 00	-000000	0 • 00 ; t	0.02373					
2240	TLICUNE	CC 47413	1 520					

BASE THICKNESS (IN) 1.520

PROJECTILE LENGTH (IN) 16.667

Z1 IS DISTANCE FROM BASE (IN)

ZZ IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/38 MK 60-0 LCT 84 PROJECTILE 84

INSPECTION DATE 10/26/70

71	-	INSI)	(T	NUTS Y-40 T	IDE) DIA
2.90	-0.0009	-0.04C0 -0.0169 -0.0242	0.04536 0.01692 0.02427	2.932 3.351 3.470		-0.0023 -0.0010	0.00286 0.00149 0.00291	4.983 5.123 5.126
4.90 5.90	-0.0069 -0.0137	-0.0153 C.0129 C.00C4	0.01678 0.01882 0.01041	3.603 3.824 3.883		-0.0018 -0.0010	0.00248 0.00260 0.00389	4.984 4.966 4.966
7.50 8.50	-0.0070 -0.0062	-0.0200 -0.0211 -0.0246	0.02119 0.02199 0.02483	3.94C	0.0038	-0.0007 -0.0018	0.00386 0.00241 0.00294	4.965 4.967 4.965
7.2		TNST		1 DIA		OUTS Y-ACT	IDE TIR) CIA
4.75	0.0006	-C.0249 -C.0124 -C.0355	0.01241	3.951 3.923	0.0047		0.00413	4.985 4.898 4.710
3.25 2.75	-0.0054 -0.0113	-0.0355 -0.0355 -0.0329	0.03551 0.03591 0.03479 0.03297	3.594 3.561 3.429 3.258	0.0027 0.0020 0.0030 0.0024	-0.0028 -0.0022	0.00361 0.00344 0.00372 0.00400	4.589 4.448 4.285
1.75	-C.0228	-0.0236 -0.0208	0.03281	2.96C 2.611	0.0050	-0.0032	0.00594	4.103 3.902
72	X-ACT	Y-ACT	ΙΙ¢					
		-0.0013 C.0142	C.CC247 C.01581					
BASE	THICKNES	SS (TN)	1.532					
PRCJE	CTILE L	NGTH (IN	16.654				1	
Z1 IS	CISTANO	CE FROM B	ASE (IN)					
72 15	CISTANO	CE FROM N	inse (IN)					
73 15	DISTANO	CE EPON N	OSE (IN)	FOR THRE	AD TIR			

5/38 MK 66-0 LCT 84 PROJECTILE B5

INSPECTION DATE 10/30/70

	(TASI	DE)	(OUTS	IDE)
71	X-ACT	Y-ACT	TIR	DIA	X-VC T	Y-ACT	TIR	CTA
1.90	-C. COPA	0.0041	0.00953	2.994	0.0016	-0.0001	0.00160	4.985
	-0. (095		0. C118C	3.390	0.0042	0.0016	0.00449	5.125
3.50	-0.0066		0.00733	3.493	0.0012	0.0011	0.00163	5.120
4.90	-0.0125	0.0036	0.01301	3.614	0.0011	0.0007	0.00130	4.985
5.90	-0.0127	0.0041	0.01335	3.728	0.0006	0.0004	0.00072	4.959
6.90	C - 0143	0.0045	0.C1502	3.843	0.0008	0.0008	0.00113	4.959
7.90	-0.0132	0.0052	0.01326	3.924	0.0016	0.0011	0.00194	4.960
R. 90	-0.0150	0.0042	O.Clesc	3.926	U.0006	0.0012	0.00134	4.959
9.90	-0.0137	0.0040	C.01427	3.633	-0.0005	0.0009	0.00092	4.961
	(INSI	ne	1	(OUTS	IDE	1
7. 2	X-ACT	Y-ACT	TIP	DTA	X-ACT	Y-ACT	TTR	DIA
	-C.0110	0.0030	0.C1140			0.0011	0.00338	4.985
	-0. CC58	0.0014	0.00490	3. 840		0.0010	0.00215	4.991
	-C.CO42	C.00C9	0.C0430	3.753	0.0012	0.0007	0.00139	4.705
	-C.00C3	0.0027	0.C0273		-0.0002	0.0010	0.00102	4.593
	0.0062	0.0052	0.00000	3.465	0.0012	0.0012	0.00170	4.441
	0.0053		0. CO 931		-0.0002	0.0011	0.00112	4.290
1.75		0.0083	C. 01 007			0.0009	0.00201	4.098
1.25	0.0018	-0.0131	0.01322	2,472	0.0022	0.0010	0.00242	3.896
73	X-ACT	Y-4CT	TTR					
1.00	0.0021	0.0032	0.0383					
7.00	0.0104	0.0255	0.07754					
BASE	THICKNE	SS (TN)	1.540					
PROJI	ECTIVE U	ENGTH (IN	1 16.655					
Z1 19	S DISTANI	LE ESUM B	ASF (IN)					
72 19	S CISTANO	CE ESUM N	OSE (TV)					

5/38 MK 66-0 LOT E5 PROJECTILE BZ

INSPECTION DATE 11/25/70

	(:	INST	DE -,)	(OUTS	IDE	1
Z1	X-ACT		TIR	DIA	X-ACT	Y-ACT	TIR	DIA
1. 90	-D. CO30	0.0024	0.00384	3. C32	0.0011	-0.0006	0.00125	4.987
	0.0044		0.00601	2.375	0.0019		0.00202	5.127
	-0.0003		· C.CO232	3,494	0.0018	0.0006	0.00190	5.126
	-0.0047		0.00475	3.606		-0.0008	0.00161	4.984
	-0.0978		0.CC794	3.720		0.0003	0.00163	4.959
	-0.0074		0.00772		0.0012		0.00134	4.960
	-0.0084		0.00859	,		-0.0	0.00220	4.959
	-0.0115		0.01152	3.921	0.0006		0.00067	4.959
	-0.0116		0.01185	3. 927	0.0006		0.00108	4.960
		.1						
	(INSI	ne)	(OUTS	IDE)
7.2	X-ACT	Y-ACT	TIR	_ DIA	X-ACT	Y- AC T	TIR	DIA
	-0.0141		0.C1446	3.938	0.0017	0.0	0.00170	4.985
	-c.01c0		°C. C1105	3.893	0.0019	0.0001	0.00190	4.887
	-0.0090		0.01087	3.704		-0.0001	0.00051	4.700
	-0.00c9		0.01168	3.578	0.0004		0.00072	4.578
	-0.0109		0.C1249	3.435	0.0007		0.00092	4.436
	-0.0092		0.00981		-0.0C13	0.0006	0.00143	4.277
	-0.0011		0.00551	2.915		0.0	0.00020	4.093
1.25	-0.C034	0.0130	0.01344	2.590	0.0C18	0.0010	0.00206	3.893
73	X-ACT	Y-ACT	TIP					
1.00	0.0020	0.0035	0.00352					
7.00		-0.0150	C.C1513	•				
			•					
	•							

BASE THICKNESS (IN) 1.451

PROJECTILE LENGTH (IN) 16.665

71 IS DISTANCE FROM PASE (IN)

Z2 IS CISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 85 PROJECTILE B3

INSPECTION DATE 11/17/70

								•
	(INS	IDE)	(OUTS	10E)
Z 1	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
	-0.0526					-0.0006	0.00072	4.984
	-0.0208		0.02109		-C.OCO1		0.00260	5.124
	-0.0261		0.02616		-0.0016		0.00340	5.126
	-0,0245		0.02462		-0.0012		0.00126	4.985
	0.0070		0.01583		0.0002		0.00028	4.950
	-C.00C2		0.01110		-0.0002		0.00022	4.950
	-0.0199		C. C1590		-0.0021		0.00212	
8.90	-0.0212	-C.00C8		3.947			0.00357	
9,90	-0.0225	-0.0021	0.02260	3.550	-0.0033	-0.0009	0.00342	4.949
		INC	ne	1	1	0015	toe	
7.2	X-ACT			DIA			TIR	
4.4	X-8(1	1-461	115	OIA	A-MC I	I-AC I	117	DIM
5.75	-0.0292	-0.0134	0.03213	3.934	-0-0021	-0-0012	0.00242	4.985
	-0.0251		0.02822		-0.0C33		0.00351	4.882
	-0.0225		0.02504		-0.0C29		0.00296	4.694
	-0.0232		0.02747	3.582	-0.0C51	-0-0019	0.00544	4.568
	-0.0254		0.03023		-0.0055		0.00565	4.426
	-0,0279				-0.0C47		0.00493	4.266
	-0.0277					-0.0018	0.00531	4.082
	-0.0255			2.662			0.00589	3.881
				1, 0 11 0 12		20022	000000	3000
73	X-ACT	Y-ACT	TIR					
	-0.0092							
7. CO	-0.0067	-0.0054	0.00861					
			. 0.4					
BASE	THICKNES	SS (TN)	1.515					
PRUJI	CTILE LE	-NGTH (IN	16,659					
71 10	CTSTANG	TE EOON 0	ASE (IN)					
. 41	, CIDIANI	JE FRUM C	436 (147)					
72 19	CISTANO	LE EBLW M	OSE LINI					
* C .	J GIST SHE		7-1-1-1-1					
23 19	SETSTANO	E FROM N	OSE (IN)	FOR THRE	AD TIR			

GUN PROJECTILE INSPECTION DATA .5/38 MK 66-0 LCT 85 PROJECTILE 85 INSPECTION DATE 11/13/70

	(INS 1	DE	1	(OUTS	IDE	1
Z 1	X-ACT	Y-ACT	TIR	DIA	X-AC T	Y-ACT	TIR	DIA
1.90	0.0111	0.0109	0.01556	2.936	-0.0010	0.0	0.00100	4.981
2.90	0.0008	0.0078	C.CO784	3.378	0.0039	-0.0017	0.00425	5.124
3. 90	0.0036	0.0079	0.00868	3.495	0.0013	-0.0017	0.00214	5.126
4.90	0.0044	0.0082	0.00931	3.611	0.0018	-0.0001	0.00180	4.983
5.90	0.0064	0.0075	0.00986	3.727	0.0015	-0.0008	0.00170	4.952
6.90	0.0096	0.0057	0.C1365	3.843	0.0024	-0.0006	0.00247	4.951
7.90	0.0106	0.0084	0.01352	3.926	0.0C24		0.00240	4.951
8. 90	C. 01 C1		0.01333	3.933		-0.0007	0.00148	4.951
9.90	0.0088		0.01156	3.940	0.0005		0.00051	4.951
	(INST	DE	1	(OUTS	IDE)
22	X-ACT		TIR	DIA	X-ACT		TIR	DIA
5.75	0.0077	0.0082	C.01125	3.948	0.0021	0.0001	0.00210	4.985
4. 75	C. 0056		C.00771	3.894	0.0025	0.0005	0.00255	4.885
3.75	0.0025		0.00447	3.757	0.0020	0.0007	0.00212	4.698
3.25	0.0013		0.00206	3.637	0.0010	0.0003	0.00104	4.574
2.75	-0.0019		0.00276	3.484	0.0002	0.0003	0.00036	4.434
	-0.0020		0.00421	3.250	0.0017	0.0013	0.00214	4.274
1.75		-0.0050	C. CC500	2.883	0.0014	0.0008	0.00161	4.091
1.25	0.0087		0.01117	2.575	0.0027	0.0012	0.00295	3.892
23	X-ACT	Y-ACT	TIR					
1.00	-C. 0006	-C.00C8	0.00100					
7 00	0 01/7	0 0130	0 00177					

7.00 0.0167 -0.0139 0.02173

BASE THICKNESS (IN) 1.585

PRCJECTILE LFNGTH (IN) 16.686

Z1 IS DISTANCE FROM BASE (IN)

Z2 IS CISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LOT 86 PROJECTILE 81

INSPECTION DATE 11/17/70

	(INS!	DE	1	(guts	IDE	1
21	X-ACT	Y-ACT	TIR	DIA	X-AC T	Y-ACT	TIR	DIA
-	-0.0127	-C.03C2	0.03276	2.980	0.0005	0.0007	0.00086	4.985
	-0.0116	-0.0100	0.02141	3.360	0.0026	0.0041	0.00485	5.124
3. 90	-0.0117	-0.0227	0.02554	3.480	0. OCO1	0.0032	0.00320	5.122
4.90	-0.0112	-0.0096	0.01475	3.614	-0.0C01	0.0002	0.00022	4.984
5.90	- 1.0058	0.0228	0.C2353	3.834	0.0004	0.0017	0.00175	4.953
6.90	-0.0055	0.0217	0.02239	3.944	C. OC17	0.0011	0.00202	4.951
7.90	-0.0040	0.0112	0.C1189	3.576	0.0C22	0.0011	0.00246	4.952
8, 90	-0.0063	0-0102	0.01199	3.977	0.0015	0.0013	0.00198	4.949
9,90	-0.0075	0.0057	0.00942	3.963	0.0C13	0.0003	0.00133	4.949
	(INSI	DE)	(OUTS	IDE	1
12	X-ACT	Y-ACT	TIR	DIA	X-AC T	Y-ACT	TIR	DIA
5.75		-0.0195	0.01985	3.919	0.0030	0.0012	0.00323	4.986
4,75			0.01501	3.856	0.0010	0.0002	0.00102	4.882
3.75		-0.0149	0.01655	3.653	C. OC17	0.0005	0.00177	4.694
3.25		-0.0140	0.C1584	3.528	0.0019	0.0004	0.00194	4.569
2.75		-0.0117	0.C1412	3.390			0.00181	4.428
2.25	0.0091	-0.0115	0.01466	3.2C6	0.0021	0.0003	0.00212	4.226
1.75	0.0124	-c.01co	0.01593	2.88C	0.0015	-0.0004	0.00155	4.085
1.25	0.0071	-0.0133	0.01508	2.571	0.0033	-0.0005	0.00334	3.884
73	X-ACT	Y-ACT	TIR					
	0 0055							
1.00	0.0059	C.C	0.00590					
7.00	0.0026	-0.0061	0.00663					

BASE THICKNESS (IN) 1.479

PRCJECTILE LENGTH (IN) 16.659

ZI IS CISTANCE FROM BASE (IN)

Z2 IS EISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 86 PROJECTILE 83

INSPECTION CATE 11/20/70

•	(INS	IDE)	(OUTS	IDE)
Z 1	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	CIA
1.90	-0.0068	-0.0129	0.01547	2.988	-0.0003	0.0	0.00030	4.986
	-0.0070			3.376		0.0011	0.00264	5.123
	-0.0054				-0.0013		0.00132	5.121
	-0.0132		0.02121		-0.0010		0.00104	4.983
	-0.0125			3.727		0.0006	0.00190	4.953
	-0.0100			3.843		-0.0002	0.00063	4.952
	-0.0083		0.01636		-0.0008		0.00128	4.952
	-0.0078		0.01752	3.928		-0.0004	0.00233	4.951
9.90	-0.0083	-0.0160	0.01802	3.931	0.0001	-0.0002	0.00022	4.951
	(INS	IDE		(OUTS	IDE)
22	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
5. 75	-0.0050	-0.0168	0.01753	3.935	-0. acse	-0-0006	0.00267	4.985
	-0-0034		0.01344		-0,0010		0.00100	4.887
	-0.0006		0.01102		-9.0016		0.00160	4.702
	0.0006		0.01182		-0.0011		0.00112	4.578
	-0.0005		0.01121		0.0022		0.00272	4.443
	0.0016		0.00806		-0.0C26		0.00262	4.278
	-0.0020		0.00604		-0.0C18		0.00180	4.098
1.25	-0.0128	0.0039	0.01338		-0.0017		0.00170	3.898
7.3	V_ACT	V_46T	710					
Z3	X-ACT	Y-ACT	TIR					
1.00	-0. CO28	0.0018	0.00333					
	-0-0040	0-0216	0.02197					

BASE THICKNESS (IN) 1.514

PROJECTILE LENGTH (IN) 16.644

ZI IS DISTANCE FROM BASE (IN)

Z2 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA 5/38 MK 66-0 LCT 86 PROJECTILE 84

INSPECTION DATE 11/25/70

	(INS	IDE)	(OUTS	IDE)
71	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y- AC T	TIR	DIA
1 90	-0.0134	-0.0034	0.01382	2.998	0.0015	0.0009	0.00175	4.983
2 90	-0.0079	0.0011	0.00798	3.378	-0.0003	-0.0004	0.00050	5.123
3 90	-0-0072	0.0004	0.00721	3.497	0.0002	0.0009	0.00092	5.126
4.90	-0-0074	0.0017	0.00759	3.612	-0.0004	0.0005	0.00064	4.982
5.90	-0.0045	0.0016	0,00478	3.726	-0.0004	-0.0006	0.00072	4.960
.6, 90	0.0006	0,0028	0.00286	3.845	0.0011	-0.0004	0.00117	4.958
7 - 90	0,0020	0.0027	0.00336	3, 528	-0.0003	0.0001	0.00022	4.960
8,90	0.0045	0.0042	0.00616	3.933	-0.0004	-0.0003	0.00050	4.960
9 90	0.0047	0.0050	0,00686	3.942	-0.0013	-0.0	0.00130	4.960
	(INS		1	(OUTS	-	1
7.2	X-ACT	Y-ACT	TIR	DIA	X-AC T	Y-ACT	TTR	DIA
5.75	0.0078	0.0072	0.01062	3.949		0.0	0,00050	4.985
4.75	0,0086	0,0070	0.01109	3.906		0.0012	0.00134	4.888
3,75	0.0059	0.0002	0.00590	3.707	-0.0007	0.0004	0.00081	4.702
3 25	0.0015	0.0008	0.00170	3.577	-0.0015	0.0007	0.00166	4.581
2, 75	-0. CO11	0-0017	0.00303	3,442	-0.0C19	0.0002	0.00191	4.439
2 25	-0.0033	-0,0006	0,00335	3.261	-0.0004	0.0004	0.00057	4.275
1, 75	-0.0058	-0.0041	0.00710	2.931	-0.0016	0.0005	0.00168	4.096
1 . 25	-0.0075	0.0012	0.00760	2.599	-0.0C14	0.0004	0.00146	3.891
73	X-ACT	Y-ACT	TIR					
1 . 00	-0,0021	-0,0010	0.00233					
7.00	0.0161	-0.0167	0.C2320					

BASE THICKNESS (IN) 1,518

PROJECTILE LENGTH (IN) 16.658

ZI IS DISTANCE FROM PASE (IN)

ZZ IS CISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LCT 86 PROJECTILE B5

INSPECTION DATE 11/19/70

	(INST	DE	1	(guts	IDE)
Z1	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
	-0.0333	-0.0265	0.04256		-C. CC04		0.00045	4.986
	-0.0400		C. C4644	3.359		-0.0009	0.00135	5.128
3.90	-0.0190	-0.0031	0.01925	3.523		-0.0005	0.00265	5.125
4.90	-0.0066	0.0064	0.00919	3.689	-C.0005	-0.0006	0.00078	4.985
5.90	0.0058		0.01046	3.847	0.0012	0.0005	0.00130	4.957
6, 90	-0.0028	0.0066	0.CO717	3.921	0.0018	-0.0002	0.00181	4.959
7.90	-0.0098	0.0013	0.00989	3.974	C. OC11	-0.0005	0.00121	4.956
8. 90	-0.0091	0.0014	0.00921	3.972	0.0014	-0.0004	0.00146	4.956
	-0.0182		0.01851	3.948			0.00060	4.958
	(INSI	DE)	(OUTS	IDE)
22	X-ACT	Y-ACT	TIR	DIA	X-AC T	Y-ACT	TIR	DIA
5.75	-0.0245	-0.0185	0.C3070	3.935	0.0023	0.0006	0.00238	4.987
4.75	-C. 02C6	-0.0167	0.02652	3.910	0.0019	0.0013	0.00230	4.890
3.75	-0.0130	-0.0188	C. C2286	3.74R	0.0010	0.0009	0.00135	4.703
3.25	-0.0147	-0.0125	0.02363	3.634	0.0002	0.0004	0.00045	4.576
2.75	-0. C172	-0.0170	0.02418	3.502	0.0004	0.0006	0.00072	4.434
2. 25	-0. C194	-0.0158	0.02502	3.330	-0.0C02	0.0001	0.00022	4.271
		-0.0250	0.02851	3.020	C. OC1 4	0.0004	0.00146	4.089
	-0.0015		0.02564	2.651	0.0015	0.0002	0.00151	3.886
	000019	00000		20052	00 002 2	0.0001		300.0
7.3	X-ACT	Y-ACT	TIR					
1.00	-0.0003	0.0051	0.00511					
7.00	0.0012	0.0145	C, C1455					

BASE THICKNESS (IN) 1.591

PROJECTILE LENGTH (IN) 16.726

ZI IS DISTANCE FROM BASE (IN)

Z2 IS DISTANCE FROM NOSE (IN)

5/38 MK 66-0 LCT E7 PROJECTILE B1

INSPECTION DATE 11/16/70

	(INS	IDE)	(OUTS	10E)
71	X-ACT		TIR	DIA	X-ACT	Y-ACT	TIR	AIG
1 . 90	-0,0145	-0-0028	0.C1477	2.939	0.0008	0.0019	0.00206	4.984
2, 90		0.0015	0.00962	3.379	C. 0007	0.0023	0.00240	5.122
	-0.0001		0.00081	3.497	0.0013	0.0016	0.00206	5.123
	-0.0100		0.01C03	3.619	0.0007		0.00086	4.984
	-0.0105	0.0018	0.C1065	3. 734	-0.0012	0.0009	0.00150	4.955
	-0.0035		0.00361	3. 852	0.001C	0.0018	0.00206	4.958
	-0.0086		0.00885	3.947			0.00236	4.956
	-0.0117		0. C1268	3.949	0.0017	0.0013	0.00214	4.956
	-0.0142		0.01778	3. 960.		0.0008	0.00188	4.958
4. 70	-0.0142	-0.016	0.01118	36 700.	0.001	0.0008	0.00100	₹6730
	(INS	IDE)	(nuts	IDE)
72	X-ACT	Y-ACT	TIR	DIA	X-AC T	Y-ACT	TIR	DIA
	.,							•
5.75	-0.0173	-C.0187	G. C2548	3.965	0.0015	0.0	0.00150	4.985
4.75	-0.0184	-0.02C2	0.02732	3.919	0.0011	0.0	0.00110	4.886
3.75	-0.0228	-0.0054	0.02466	3.756	C. 0C15	0.0002	0.00151	4.697
3.25	-0.0197	-0.0038	C.02006	3.647	0.0006	-0.0	0.00060	4.575
2.75	-0.0142	C. 00Cl	0.C1420	3.523	0.0009	-0.0002	0.00092	4.432
2, 25	-0.0145	0.0079	0.01651	3.353	C.0C06	-0.0005	0.00078	4.270
1.75	-C. 0118	0.0191	0.C2245	3.C41	0.0C15	-0.0	0.00150	4.087
1.25	-0.0139	0.0217	0.02577	2.696	0.002C	0.0001	0.00200	3.884
7.3	X-ACT	Y-ACT	TIR					
1,00	-0.0030	0.0020	0.CC361				,	
7.00		-0.0045	0.00583				·	

BASE THICKNESS (IN) 1.541

PROJECTILE LENGTH (IN) 16.649

ZI IS DISTANCE FROM BASE (IN)

ZZ IS CISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 87 PROJECTILE 82

INSPECTION DATE 11/25/70

	(INST	DE	1	(OUTS	IDE)
7.1	X-ACT	Y-ACT	TIR	DTA	X-ACT	Y-ACT	TIR	AIG
		0.0073	0.00733			-0.0003	0.00036	4.986
2.90		0.0043	0.01209		0.0		0.00180	5.126
3.90	0.0050	0.0017	0.00528	3.501	-0.0012	0.0010	0.00156	5.125
4.90	-0.0004	-0.0012	0.00126	3.619	-0.0001	0.0008	0.00081	4.986
5.90	-0.0018	-0.0041	0.00448	3.736	-0.0014	0.0002	0.00141	4.956
6.90	-0.0007	-0.0064	0.00644	3.849	-0.0012	0.0006	0.00134	4.956
7.90	-0.0022	-0.0086	0.00888	3.928	-0.0031	-0.0002	0.00311	4.955
8.90	-0.0023	-0.0088	0.0910	3.932	-0.0025	-0.0002	0.00251	4.953
9,90	-0,0032	-0.0102	C. C1 C6 9	3.936	-0.0036	-0.0003	0.00361	4.953
	(INST	DE)	(OUTS	IDE)
72	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-AC T	TIR	DIA
5 75	-0.0005	-0.0080	0.00802	3.939	0.0004	0.0005	0.00064	4.985
4. 75	-0.0009	-0.0072	C. CC726	3.888	-0.0010	0.0013	0.00164	4.884
3.75	-0.0030	-0.0069	0.00752	3.683	-0.0C25	0.0018	0.00308	4.700
3 25	0.0006	-0.0037	0.00375	3,550	-0.0C26	0.0016	0.00305	4.577
		-0.0027	0.0300	3,409	-0.0	0.0026	0.00260	4.438
2.25		-0.0050	C.00514		-0.0031	0.0013	0.00336	4.276
1.75		-0.0059	0.01029		-0.0C34	0.0014	0.00368	4.096
1,25		0.0060	0,00899		-0-0043	0.0019	0.00470	3.895
# 17 14 p.	01000	04000			00 17 0 17 3	00 02 >	3000113	30075
23	X-ACT	Y-ACT	TIR					
1.00	-0.0094	0.0043	C- C1 C3 4					
7.00	-0.0086	0.0124	C. C150c					

BASE THICKNESS (IN) 1.536

PROJECTILE LENGTH (IN) 16.666

ZI IS DISTANCE FROM BASE (IN)

Z2 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT F7 PROJECTILE 84

INSPECTION DATE 11/19/70

	(INS	IDF)	(OUTS	IDE)
71	X-ACT		TIP			Y-ACT	TTR	CIA
		-0.0078				-0.0013	0.00177	4.985
		C.0058	0.00653	3.381	0.0019	-0.0014	0.00236	5.126
	-0.0003		0.00381	3.494		-0.0023	0.00461	
		0.0011				-0.0003	0.00058	4.987
5.90		0.0040	0.00472			-0.0012	0.00144	4.961
6.90		0.0036	0.00488			-0.0012	0.00170	4.959
7.90		-0.0005	0.00542			-0.0016	0.00160	4.958
8,90		-0.0050				-0.0010	0.00135	4.958
9.50	0.0034	-0.0051	0.00613	3.c5 b	-0.002C	-0.0018	0.00269	4.958
						01176	105	
7.0			10E)		Y-ACT	IDE)
72	X-8()	Y-ACT	TTR	1/14	X-AC.	Y-AC I	TIR	DIA
5.75	C-0049	-0.0080	0.00938	3, 633	-0-0008	-0.0011	0.00136	4.983
4.75		-0.0050				-0.0008	0.00100	4.888
3.75		-0.0031	0.00232			-0.0002	0.00181	4.702
3.25		-0.0010	0.00307			-0.0007	0.00202	4.579
2.75		0.0019	0.00202			-0.0011	0.00228	4.437
2. 25	-0.0009	0.0009	0.00127		-0.0C17	-0.0012	0.00208	4.276
		0.0037	0.00483		-0.0004	-0.0017	0.00175	4.096
1.25	0.0102	-0.0018	C. C1 036	2.576	-0.0006	-0.0018	0.00190	3.894
73	X-ACT	Y-ACT	TIR					
	0 00//		0.00///					
		0.0007						
/• 00	-0.0260	0.0124	0.02891					
	•		•					
RASE	THICKNE	1 N 1 3 2	1.520					
17400								
PREJI	CTILE L	ENGTH (IN	11 16.673					
Z1 T	S ETSTANI	CE FRCM	PASE (TM)					
22 1	S CISTAN	א אולא או	NUSE (IN)					
72 10	PICTANA		INSE (TN)	END THE	EAD TIP			
7 2 1	ואייז יר זיו כ	CL LALL I	4.14. 4.10.1	THE STAFF	. 417 115			

5/38 MK 66-0 LOT 87 PROJECTILE B5

INSPECTION DATE 11/12/70

```
(---- INSTITE ----) (---- OUTSIDE -----)
 Z1
      X-ACT
              Y-ACT
                      TIR
                               DIA
                                      X-ACT Y-ACT
                                                      TIR
                                                                CIA
1.90 -0.0024 -0.0020
                    0.00312
                               2.903 -0.0026 0.0004 0.00263
                                                               4.982
2.90 -0.0025 0.0020
                    0.CO320
                               3.365 -0.0042 -0.0034
                                                     0.00540
                                                               5.124
3.90
     0.0009 C.00C7
                    0.00114
                               3.487 -0.0047 -0.0016
                                                     0.00496
                                                               5.124
4.90 -0.0015 -0.0007
                    0.00166
                               3.601 -0.0021 -0.0001
                                                     0.00210
                                                               4.986
5,90
     0.0024 - 0.0021
                    0.00319
                               3.718 -0.0
                                            -0.0
                                                     0.0
                                                               4.953
                               3.834 -0.0002 -0.0008
6:90
      0.0013 -0.0018
                    0.CO222
                                                     0.00082
                                                               4.952
7.90
                    0.00357
                               3.925 -0.0018 -0.0002
      0.0034 + 0.0011
                                                     0.00181
                                                               4.952
6.90
      0.0029 C.00C1
                    0.00290
                               3.923 -0.0028 -0.0008
                                                     0.00291
                                                               4.952
     0.0046
            0.0027
                    0.00533
9.90
                               3.932 -0.0033 -0.0005
                                                     0.00334
                                                               4.952
      (---- INSIDE ----) (---- OUTSIDE -----)
 22
      X-ACT
              Y-ACT
                      TIR
                               DIA
                                      X-ACT Y-ACT
                                                    TIR
                                                               DIA
5.75
     0.0058
             0.0038
                    0.00693
                               3.941 -0.0031 -0.0002 0.00311
                                                              4.986
4.75
     0.0087
             0.0055
                    C, C1 C29
                               3.906 -0.0028 -0.0007
                                                    0.00289
                                                               4.888
3.75
      0.0027
             0.0060
                     0.00658
                               3.714 -0.0029 -0.0003
                                                               4.702
                                                    0.00292
3.25
     0.0009
            0.0020
                     0.00219
                               3.590 -0.0036 0.0003
                                                    0.00361
                                                               4.579
2.75 -0.0032 -0.0013
                     0,00345
                               3,454 -0.0040 -0.0
                                                     0.00400
                                                              4.437
                               3.273 -0.0040 0.0002
                                                   0.00400
2.25 -0.0036 -0.0020
                    0.00412
                                                              4.280
1.75 -0.0044 -0.0062 0.CC76C
                               2.928 -0.0038 0.0003
                                                    0.00381
                                                               4.097
1.25 -0.0075 -0.0142 0.01606
                              2.584 -0.0036 0.0005 0.00363
                                                              3.896
23
      X-ACT
              Y-ACT
                      TIR
                    C. C0161
1,00 -0.0008 -0.0014
7.00 0.0223 0.0043 0.02271
```

BASE THICKNESS (IN) 1,567

PROJECTILE LENGTH (IN) 16.666

Z1 IS DISTANCE FROM BASE (IN)

Z2 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 88 PROJECTILE B1
INSPECTION DATE 11/12/70

	(INSI	DE)	(UTSIDE)
7.1	X-ACT	Y-ACT	TIR	DIA	X-ACT Y-A		DIA
1,90	0.0057		C.C1661	2.958	0.0024 -0.00		4.986
2.90	-0.0005		0.01561	3.378	0.0021 0.00	17 0.00270	5.126
3.90	0.0044	0.0144	0.01506	3.492	0.0057 0.00	50 0.00758	5.124
4,90	0, 0066	0.0152	C.01657	3.608	0.0014 -0.00	02 0.00141	4.987
5.50	0.0073	0.0148	0,01650	3.720	0.0017 -0.00	0.00173	4.955
6.90	0.0078	0.0134	0.C1550	3.839	0.0024 0.00	02 0.00241	4.957
7, 90	0,0065	0.0141	0.01553	3.928	0.0042 0.00		4.956
8, 90	0.0060	0.0127	0.01496	3.931	0.0029 0.00		4.958
9,90	0.0051	0.0141	0-01499	3.937	0.0028 0.00		4.955
		***************************************				0. 0.000.00	
	(INSI	DE)	(0	UTSIDE)
72	X-ACT	Y-ACT	TIR	DIA	X-ACT Y-A	CT TIR	DIA
5.75	0.0071	0.0173	C. C1 87C	3.940	0.0033 0.00	09 0.00342	4.986
4.75	0.0123	0.0147	0.01917	3.899	0.0035 0.00		4.888
3, 75	0.0123	0,0083	0.02009	3.706	0.0034 -0.0	0.00340	4.701
3.25	0.0176	0-0022	0.02004 0.01774	3.584	0.0017 0.00		
							4.579
2, 75	0.0151		0.01511	3.449	0.0023 0.00		4.437
2, 25	0.0126	-0.0009	0.01263	3.276	0.0027 0.00		4.275
1-75		-0.0025	0.C1177	2.958	0.0026 0.00		4.094
1,25	0.0085	0.0035	0.00919	2,612	0.0038 0.00	03 0.00381	3.891
23	X-ACT	Y-ACT	TIR				
1.00	0.0043	0.0045	0.00622				
7.00	0.0029	0.0063	0.00689				
			•				

BASE THICKNESS (IN) 1.563

PROJECTILE LENGTH (IN) 16.667

Z1 IS DISTANCE FROM BASE (IN)

Z2 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT 88 PROJECTILE B2
INSPECTION DATE 11/16/70

	(INS	TDE)	(OUTS	105	
71	X-ACT	Y-ACT	TIR	DIA	X- AC T	Y-ACT	TIR	DIA
1 . 90	0.0129	0.0055	0.01602	2 670				014
2.90			0.00861		-C.0007	0.0004	0.00081	4.982
3', 90	0.0034		C. CC888	3.378		0.0026	0.00375	5.123
4, 90	0.0013	0.0079	C. CC801	3.496	-0.0017	0.0028	0.00328	5.127
5.90	0.0018	0.0078		3.614	-0.0035	0.0005	0.00354	4.986
6.90	0.0028	0.0018	0,0000	3.727	-0.0017	0.0	0.00170	4.955
7. 90	0.0015	0.0051	0.00952	3.842		0.0001	0.00051	4.958
8. 90	0.0020	0.0073	0.00843	3.927		-0.0012	0.00150	4.954
9, 90	-C.0000		0.00757	3. 929	-C.OC15	-0-0009	0.00175	4.955
, , ,		0.0061	0.00617	3.935	-0.0018	-0.0008	0.00197	4.958
	(~-					40,00
7.2	X-ACT	INST)	(OUTS	IDF)
r. c.	X-ACT	Y-ACT	TIR	DIA	X-AC T	Y- AC T	TIR	CIA
5.75	0.0012	0.0066	0.00/71					
4.75	0.0	0.0066	0.00671	3.544	-0.0012 -	-0.0004	0.00126	4.986
3.75	0.0012	0.0052	0.00660	3.907	-C. 0010 -	-0.0005	0.00112	4.887
3. 25	0.0023	0.0003	C.CO534	3.71C	-0.0019 -	-0.0016	0.00248	4.702
2,75	_		0.00232	3.578	-0.0021 -	-0.0012	0.00242	4.579
2.25		-0.0031	0.00354	3.436	-0.0026 -	-0.0017	0.00311	4.437.
1.75		-0.0035	0.00370	3.255	-0.0C15 -	0.0013	0.00230	4.275
1 - 25	0.0022		0.00397	2.933	-0.0010 -	0.0018	0.00206	4.093
4 1 2 3	C • CO 86	0.0007	0.00863	2.577	-C.0010 -	0.0015	0.00180	3.891
23	X-ACT	V 467						3.031
.)	A-ACI	Y-ACT	TIR					
1. CO	-0.0014	0.0012	0.00184					
7. 00	0.0193 -	-0-0067	0.02043					
			9102043					

BASE THICKNESS (IN) 1,559

PROJECTILE LENGTH (IN) 16.664

ZI IS DISTANCE FROM BASE (IN)

72 IS EISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LCT 88 PROJECTILE 84
INSPECTION DATE 11/12/70

	(INS	IDE	1	1	OHT	TIOT	_
Z1	X-ACT		TIR	DIA	X-ACT		SIDE)
					A-AC I	Y-ACT	TIR	DIA
1,90	-0,0050	0.0082	C.C1010	2.570	0.0014	-0.0006	0 00150	
	-0.0062		0.00755	3.379	0.0034		0.00152	4.982
	-0.0063		0.00741	3.496		0.0018	0.00385	5.125
	-0.0086		0.00518	3.612	0.0023	-0.0	0.00230	5.125
	-0.0078		0.00829		0.0010	0.0006	0.00117	4.983
	-0.0076		0.00854	3.728	0.0038	0.0012	0.00398	4.961
	-0,0065		0.00738	3.848	0.0052	0.0016	0.00544	4.958
	-0.0072	0.0017		3.928	0.0040	0.0013	0.00421	4.958
	-0.0063	0.0017	0.00740	3. 927	0.0032	0.0012	0.00342	4.959
	-040063	0.0015	0.00643	3.930	0.0043	0.0024	0.00492	4.958
	1		0.5					
22	X-ACT	INSI)	(DUTS	IDE)
	X-AC I	Y-ACT	TIP	DIA	X-ACT	Y-ACT	TIR	CIA
5 - 75	- 6 0004	0 0000						
4.75	-C,0004	0.0022	0.00224	3.932	0.0039	0.0012	0.00408	4.984
	0.0022	0.0000	0.00238	3.893	C. 0C61	0.0011	0.00620	4.888
3. 75	0.0028	-0.0013	0.00309	3.770	0.0048	0.0022	0.00528	4.700
3, 25		-0.0037	0.00389	3.646	0.0055	0.0017	0.00576	4.579
	-0.0022		C.00465	3.487	0.0044	0.0014	0.00462	4.438
2.25		-0.0041	0.00461	3.237	0.0057	0.0016	0.00592	4.273
1.75	0.0065	0.0034	C.00734	2.856	0.0029	0.0001	0.00290	4.096
1.25	0.0198	-0.0012	0.01984	2.577	0.0065	0.0023	0.00689	3.892
						010023	0.00007	3.072
23	X-ACT	Y-ACT	TTR					
							٧	
1.CO	C. 0043	0.0011	0.00444					
7,00	0.0023	0.0046	0.CO514					

BASE THICKNESS (IN) 1.557

PRCJECTILE LENGTH (IN) 16.659

Z1 IS DISTANCE FROM PASE (IN)

Z2 IS DISTANCE FROM NOSE (IN)

5/38 MK 66-0 LCT 89 PROJECTILE R2

INSPECTION DATE 11/23/70

	(INST	IDE	1	(OUTS	IDE)
71	X-ACT	Y-ACT	TTR	DIA	X-AC T	Y-ACT	TIR	DIA
		-0.0096	0,01640	•	-C.0C02		0.00102	4.983
	-0.0089		0.01231		-0.0CC5		0.00168	5.121
~, 90	-0.0108	-0.0043	0.01162	3,489	-0.0015	-0.0003	0.00153	5.121
4,90	-0.0165		0.01650	3.605	-0.0012	-0.0007	0.00139	4.983
5.90	-0.0150	C.0018	0.01511	3.717	-0.0C11	-0.0011	0.00156	4.955
6.90	-0.0142	0.0029	0.01449	3.832	-0.0013	-0.0008	0.00153	4.955
7,90	-0.7141	0.0032	0.01446	3.517	-0.0007	-0.0008	0.00106	4.953
9,90	-0.0137	0.0039	0.01424	3.917	-0.0C25	-0.0009	0.00266	4.951
9.90	-0.0110	0.0064	0.01273	3.918	-0.0023	-0.0007	0.00240	4.953
	(INS	IDE)	(QUIS	IDE)
2.2	X-ACT	Y-4CT	TIR	DIA	X-ACT	Y-ACT	TIR	CIA
5. 75	-C.0120	0.0051	C. C1304	3.932	-0.0024	-0.0014	0.00278	4.985
4. 75	-C.0103	0.0043	0.01116	3.898	-0.0032	-0.0016	0.00358	4.885
3.75	-0.0089	0.0042	0,00584	3.710	-0.0031	-0.0007	0.00318	4.697
3, 25	-0.0089	0.0058	0,01062	3.585	-0.0C32	-0.0010	0.00335	4.572
2, 75	-0. C074	0.0072	0.01032	3.443	-0.CC42	-0.0011	0.00434	4.432
2,25	-0.0061	0.0062	0.00870	3.251	-0.0032	-0,0008	0.00330	4.270
	-0.0035	0,0045	0.00570	2,902	-0.0039	-0.0011	0.00405	4.085
1,25	-0.0057	-0.0054	C.00785	2.593	-0.0034	-0.0006	0.00345	3.883
73	X-ACT	Y-ACT	TIR					
1.00	-0.0038	-0.0003	0.00381					
7,00		-0.0007	0,02051					

BASE THICKNESS (IN) 1.4 9

PREJECTILE LENGTH (IN) 16,653

- ZI IS CISTANCE FROM BASE (IN)
- 72 IS DISTANCE FROM NOSE (IN)
- 73 IS DISTANCE FROM NOSE (IN) FOR THREAD TIR

5/38 MK 66-0 LCT 89 PROJECTILE 83

INSPECTION DATE 11/20/70

	(INS	IDE	1	(OUTS	IDE)
7.1	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
					41.0			
1,, 90	0.0057		0.00982			-0.0007	0.00086	4.984
2, 90		0.0026	0.00341	3.359	0.0022	0.0016	0.00272	5.125
3. 90	0.0085	0.0007	0.00853	3.479	0.0012	-0.0004	0.00126	5.128
4. 90	0.0120	-0.00C4	0.01201	3.590	-0.0C19	0.0001	0.00190	4.986
5, 90	0.0135	-0.0023	0.01369	3.706	0.0008	0.0003	0.00085	4.955
6.90	0,0147	-C.0021	C, 01485	3.822	0.0027	-0.0004	0.00273	4.952
7. 90	0.0157	-0.0021	0.01584	3.91€	C. 0007	0.0004	0.00081	4.952
8.90	0.0155	-0.0035	0.01589	3.921	C. 00C1	0.0003	0.00032	4.952
9,90	0.0148	-0.0043	0.C1541	3.924	0.0006	0.0001	0.00061	4.952
	(INS	INE)	(OUTS	IDE)
7.2	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	CIA
5.75	0.0150	-0.0042	0.01558	3.928	0.0015	0.0006	0.00162	4.984
4.75	0.0123	-0.0039	0.C1290	3.904	0.0017	0.0007	0.00184	4.882
3.75	0.0084	-0.0017	0.00857	3.802	0.0004	0.0013	0.00136	4.696
3.25	0.0062	0.0012	0.00632	3.682	-C.0001	0.0009	0.00091	4.573
2,75	0.0064	0.0043	0.00771		-0.0009	0.0007	0.00114	4.431
2. 25	0.0057	0.0053	C,0C778	3.264	0.0006	0.0005	0.00078	4.271
1.75	0.0048	0.0049	0.00686	2.894	0.0013	0.0006	0.00143	4.089
1.25	0.0019	0.0038	0.00425	2.604	0.0C13	0.0008	0.00153	3.889
						,		
7.3	X-ACT	Y-ACT	TIR					
1.CO	-0.0035	0.0031	C. CC468					
7.00		0.0088						

BASE THICKNESS (IN) 1.501

PREJECTILE LENGTH (IN) 16.680

Z1 IS CISTANCE FROM BASE (IN)

Z2 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA 5/38 MK 66-0 LOT 89 PROJECTILE 84

INSPECTION DATE 11/20/70

	(INS	IDE)	(OUTS	IDE)
71	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	DIA
1.90	0.0046	-C.0035	0.00578	3.030	-0.0C14	-0.0002	0.00141	4.983
2.90	0.0059	-0.0085	C.01035		. 0.0		0.0	5.125
3.90	0.0072	-0.0039	0.00819	3.480	-0.0003	-0.0005	0.00058	5.126
4.90	0.0086	0.0013	0.CCE70	3.596	-0.0010	0.0005	0.00112	4.986
5. 90	0.0110	0.0045	0.01188	3.71C	-0.0051	0.0005	0.00512	4.965
6.90	0.0115	0.0065	0.01321	3. 824	-0.0010	-0.0005	0.00112	4.961
7,90	0.0121	0.0083	0.01467	3.913	-0.0010	0.0002	0.00102	4.962
8.90	0. 01 C8	0.0089	0.01399	3.914	-0.0022	-0.0003	0.00222	4.961
9.90	0.0101	0.0054	0.C1380	3.922	-0.0032	-0.0004	0.00322	4.963
	(INS	IDE	1	(OUTS	IDE)
15	X-ACT	Y-ACT	TIR,	DIA	X-ACT	Y-ACT	TIR	DIA
5, 75	0-0120	0.0075	0.01415	7, 929	-0.0C15	-0-0004	0.00155	4.982
4.75		0.0052	0.01101		-0.0015		0.00158	4.886
3. 75		0.0032	0.00680		-0.0021		0.00233	4.699
		-0.0020	0.00511		-0.0C18		0.00193	
		-0.0074	0.00751		-0.0017		0.00177	4.435
	-0.0050		0.01468		-0.0027		0.00277	4.272
	-0.0123		0.02263		-0.0015		0.00180	4.090
		-0.0171	0.01976		-0.0022		0.00226	3.888
Z3	X-ACT	Y-ACT	TIR					
1.00	-0.0067	0.0020	0.00699					
	-0-0063	0-0026	0.00682					

7.00 -0.0063 0.0026 0.00682

BASE THICKNESS (IN) 1.509

PREJECTILE LENGTH (IN) 16.659

Z1 IS DISTANCE FROM BASE (IN)

Z2 IS DISTANCE FROM NOSE (IN)

5/38 MK 66-0 LCT 89 PROJECTILE R5

INSPECTION DATE 11/17/70

1.	(INST	DE)	(OUTS	IDE	1
Z1	X-ACT	Y-ACT	TIR	DIA	X-ACT Y-ACT	TIR	CIV
1. 90	0.0104	0.0080	0.01312	3.006	0.0012 -0.0002	0.00122	4.985
2.90	0.0094	0.0021	0.00963	3.366	0.0006 -0.0002	0.00063	5.120
3. 90	0.0123	0.0038	C.C1287	3.483	0.0006 0.0	0.00060	5.125
4.90	0.0122	0.0041	0.01287	3.599	0.CC13 -0.0	0.00130	4.983
5.90	0.0134	0.0036	0.01388	3.712	0.0008 -0.0001	0.00081	4.955
8.90	0.0132	0.0032	C. C1358	3.827	0.0021 -0.0001	0.00210	4.953
Ja 90	0.0138	0.0042	0.C1442	3.913	0.0015 -0.0004	0.00155	4.953
8. 90	C. 0109	0.0030	0.01131	3.914	C.OCC9 -0.0001	0.00091	4.954
9. 90	0.0120	0.0030	0.C1277	3. cl 8	0.0008 -0.0004	0.00089	4.954
	(-'	INST	DE)	(:0UTS	IDE)
22	X-ACT	Y-ACT	TIR	DIA	X-ACT Y-ACT	TIR	CTA
5.75	0.0153	C.0041	0.01584	3.929	0.0007 -0.0005	0.00086	4.985
4.75	0.0133						
	0.01.22	0.0046	C.C1407	3.894	0.0019 0.0	0.00190	4.886
3.75	C. 01 C5	0.0046 0.0008	C.C1407 C.C1C53	3.854 3.74C	0.0019 0.0 0.0013 -0.0007	0.00190 0.00148	4.886 4.700
3.75 3.25	C. 01C5						
	C.01C5 0.0102	0.0008	C. C1 C53	3.74C	0.0013 -0.0007	0.00148	4.700
3.25	C.01C5 0.0102 0.0089	0.0008	C.01C53 C.01C88	3.740 3.61°	0.0013 -0.0007 0.0026 -0.0003	0.00148 0.00262	4.700 4.580
3.25 2.75	C.01C5 0.0102 0.0089 0.0066	0.0008 -0.0039 -0.0083	C.01057 C.01088 O.01217	3.740 3.61° 3.476	0.0013 -0.0007 0.0026 -0.0003 0.0010 -0.0009	0.00148 0.00262 0.00135	4.700 4.580 4.439
3.25 2.75 2.25	C.01C5 0.0102 0.0089 0.0066 0.0020	C.COC8 -0.0038 -0.0083 +0.0118	0.01057 C.01088 0.01217 G.01252	3.740 3.619 3.476	0.0013 -0.0007 0.0026 -0.0003 0.0010 -0.0009 0.0006 -0.0008	0.00148 0.00262 0.00135 0.00100	4.700 4.580 4.439 4.278
3.25 2.75 2.25 1.75	C.01C5 0.0102 0.0089 0.0066 0.0020	C.COC8 -0.0039 -0.0083 +0.0118 -0.0147	C.01C53 C.01C88 O.01217 G.01252 C.CJ484	3.740 3.619 3.476 3.287 2.954	0.0013 -0.0007 0.0026 -0.0003 0.0010 -0.0009 0.0006 -0.0008 0.0014 -0.0003	0.00148 0.00262 0.00135 0.00100 0.00143	4.700 4.580 4.439 4.278 4.099
3.25 2.75 2.25 1.75 1.25	C.01C5 0.0102 0.0089 0.0066 0.0020 -0.0017	C.COC8 -0.0039 -0.0083 +0.0118 -0.0147 -0.0085	C. C1 C57 C. O1 CP8 O. O1 217 G. C1 252 C. C1 484 C. CC 867	3.740 3.619 3.476 3.287 2.954	0.0013 -0.0007 0.0026 -0.0003 0.0010 -0.0009 0.0006 -0.0008 0.0014 -0.0003	0.00148 0.00262 0.00135 0.00100 0.00143	4.700 4.580 4.439 4.278 4.099

1.00 0.0013 0.0030 0.00327 **7.00 0.**0225 0.0144 0.02*F*71

BASE THICKNESS (IN) 1.532

PROJECTILE LENGTH (IN) 16.648

Z1 IS CISTANCE FROM BASE (IN)

ZZ IS CISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA
5/38 MK 66-0 LCT 90 PROJECTILE 84
INSPECTION DATE 11/23/70

	(INSI	DE	1	(OUTS	IDE)
21	X-ACT	Y-ACT	TIR	DIA	X-ACT		TIR	DI A
		-0.0150	0.01532		-0.0013	0.0002	0.00132	4.984
2, 90		-0.0116	0.01525		-0.0C06	0.0016	0.00171	5.124
3,90		-0.0127	0.01347	3.484	-0.0006	0.0010	0.00117	5.123
4.90		-0.0103	0.01079	3.599	-0.0005	0.0005	0.00071	4.985
5.90	0.0003	-0.0073	C.00731	3.714	-0.0C06	0.0013	0.00143	4.953
		-0.0053	0.00551	3.829	-0.0005	0.0001	0.00051	4.951
7. 90	-0.0016	-0.0051	0.00535	3.915	0.0001	0.0005	0.00051	4.950
8. 90	-0.0036	-0.0023	0.00427	3.917	-0.0C04	0.0005	0.00064	4.950
9,90	-0.0050	-0.0013	0.00517	3.919	-0.0C08	0.0003	0.00085	4.950
	(INSI	DE	1	(nuts	IDE)
2.2	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	CIA
5.75	-0.0079	-0.00C4	0.00791	3.927	0.0008	0.0005	0.00094	4.983
4. 75	-0.0069	-0.00C5	0.00692	3.888	0.0010	0.0003	0.00104	4.883
3.75	-0.0084	0.0003	0.00841	3.763	0.0002	0.0005	0.00054	4.697
	-0.0104		C. C1C40	3.639	-0.0C13	0.0002	0.00132	4.578
2, 75	-0.0111	-0.0012	0.01116	3,469	-0.0009	0.0005	0.00103	4.436
2, 25	-0.0053	-0.00C4	0.00931	3.208	-C. OCC8	-0.0	0.00080	4.276
1.75	-0.0143	0.0035	0.C1472	2.839	-0.0005	0.0001	0.00051	4.095
1.25	0.0035	0.0152	0.C1560	2.566	0.0006	0.0002	0.00063	3.895
23	X-ACT	Y-ACT	TIR					
1.00	-0.0003	-0.0009	0.00095					
7,00	0.0055	-0.0038	0.00669					
BASE	THICKNES	S (IN)	1.494					

PRCJECTILE LENGTH (IN) 16.652

Z1 IS DISTANCE FROM BASE (IN)

Z2 IS DISTANCE FROM NOSE (IN)

5/38 MK 66-0 LCT 91 PROJECTILE 81

INSPECTION DATE 11/13/70

	(INST	DE)	(OUTS	IDF)
71	X-ACT	Y-ACT	TTR	DIA	X-ACT		TIR	DIA
	-C-0065	0-0064	0.00912		-0.0005		0.00149	4.983
2, 90	0.0020	0.0018	0.00269		-0.0023	-0.0009	0.00247	5.123
3, 90	0.0006	0.0042	0.00424		-0.0C29	0.0009	0.00304	5.127
4, 90	-0.0055	0.0063	0.00836	3.601	-0.0018	-0.0002	0.00181	4.985
5.90	-0.0058	0.0077	0.00964	3.714	-0.0C12	0.0004	0.00126	4.958
6.90	-0.0058	C-0C72	0.00925	3.826	-0.0014	0.0003	0.00143	4.954
7.90	-0.0069	0.0071	C.C0990	3.920	-C. 0C06	0.0005	0.00078	4.954
8,90	-0.0070	0.0067	0.00969	3.920	-0.0C18	0.0008	0.00197	4.954
9.50	-0.0078	0.0058	0.00972	3.921	-0.0C16	0.0007	0.00175	4.954
	(INSI	DE	1	(DUTS	IDE	1
72	X-ACT	Y-ACT	TIR	DIA	X-AC T	Y-ACT	TIR	DIA
	-0.0067	0.0065	0.00933	3. 924	-0.0005	0.0016	0.00168	4.982
4.75	-0.0077	0.0065	0.01008	3.903	-0.0C07	0.0020	0.00212	4.884
3.75	-C.0046	C.CO57	0.00732	3.80C	-0.0009	0.0021	0.00228	4.697
3.25	-0.0001	0.0058	C.C0580	3.679	-0.0013	0.0018	0.00222	4.577
2.75	0.0033	0.0064	0.00720	3.511	-0.0C18	0.0015	0.00234	4.435
2.25	0.0052	0.0054	C.CO750	3.269	-0.0C10	0.0022	0.00242	4.274
1.75	0.0073	0.0037	0.00818	2.901	-0.0006	0.0021	0.00218	4.093
1.25	0.0061	0.0168	0.01240	2.601	C. OCO1	0.0022	0.00220	3.891
23	X-ACT	Y-ACT	TIR					
1.00	-0.0020	0.0050	0.00539					
7.00	0.0038	C.0008	0.00388					

BASE THICKNESS (IN) 1.503

PROJECTILE LENGTH (IN) 16.664

Z1 IS DISTANCE FROM BASE (IN) -

Z2 IS DISTANCE FROM NOSE (IN)

GUN PROJECTILE INSPECTION DATA 5/38 MK 66-0 LOT 91 PROJECTILE 84 INSPECTION DATE 11/23/70

2.90 -0.0033 -0.0062 0.00702 3.368 -0.0009 -0.0 0.00090 3.90 -0.0047 -0.0084 0.00963 3.482 -0.0004 0.0009 0.00098 4.90 -0.0033 -0.0088 0.00940 3.594 -0.0005 0.0002 0.00054 5.90 -0.0012 -0.0104 0.01047 3.705 0.0026 0.0004 0.00263 6.90 -0.0012 -0.0112 0.01126 3.824 0.0022 0.0001 0.00220 7.90 -0.0024 -0.0119 0.01214 3.910 0.0034 0.0004 0.00342 8.90 -0.0042 -0.0117 0.01243 3.916 0.0015 0.0003 0.00153 9.90 -0.0024 -0.0114 0.01165 3.917 0.0011 0.0006 0.00125)
2.90 -0.0033 -0.0062 0.00702 3.368 -0.0009 -0.0 0.00090 3.90 -0.0047 -0.0084 0.00963 3.482 -0.0004 0.0009 0.00098 4.90 -0.0033 -0.0088 0.00940 3.594 -0.0005 0.0002 0.00054 5.90 -0.0012 -0.0104 0.01047 3.705 0.0026 0.0004 0.00263 6.90 -0.0012 -0.0112 0.01126 3.824 0.0022 0.0001 0.00220 7.90 -0.0024 -0.0119 0.01214 3.910 0.0034 0.0004 0.00342 8.90 -0.0042 -0.0117 0.01243 3.916 0.0015 0.0003 0.00153 9.90 -0.0024 -0.0114 0.01165 3.917 0.0011 0.0006 0.00125	DIA
3.90 -0.0047 -0.0084	4.982
4.90 -0.0033 -0.0088	5.123
5.90 -0.0012 -0.0104	5.127
6.90 -0.0012 -0.0112 0.01126 3.824 0.0022 0.0001 0.00220 7.90 -0.0024 -0.0119 0.01214 3.910 0.0034 0.0004 0.00342 8.90 -0.0042 -0.0117 0.01243 3.916 0.0015 0.0003 0.00153 9.90 -0.0024 -0.0114 0.01165 3.917 0.0011 0.0006 0.00125	4.985
7.90 -0.0024 -0.0119	4.957
8,90 -0.0042 -C.0117 0.C1243 2.916 0.0015 0.0003 0.00153 9.90 -0.0024 -0.0114 0.01165 3.917 0.0011 0.0006 0.00125 (INSIDE) (OUTSIDE	4.956
9.90 -0.0024 -0.0114 0.01165 3.517 0.0011 0.0006 0.00125 (INSIDE) (OUTSIDE	4.955
(INSIDE) (OUTSIDE	4.956
, , , , , , , , , , , , , , , , , , , ,	4.955
, , , , , , , , , , , , , , , , , , , ,)
ZZ X-ACT Y-ACT TIR DIA X-ACT Y-ACT TIR	DIA
5.75 -0.0046 -0.0112 0.01211 3.919 0.0025 0.0005 0.00255	4.982
4,75 -0.0037 -0.0055 C.C1C2C 3.901 0.0018 0.0009 0.00201	4.887
3.75 -0.0062 -0.0043 0.00755 3.796 0.0029 0.0013 0.00318	4.702
3.25 -0.0073 -0.0007 0.00733 3.676 0.0020 0.0014 0.00244	4.580
2.75 -0,0086 0.0040 0.00948 3.508 0.0019 0.0016 0.00248	4.441
2.25 -C.0067 0.0074 C.CC998 3.256 C.OC24 0.0019 0.00306	4.279
1.75 -0.0035 0.0111 0.01164 2.886 0.0025 0.0026 0.00361	4.098
1.25 0.0043 0.0112 0.01200 2.598 0.0031 0.0024 0.00392	3.897
73 X-ACT Y-ACT TIR	
1 00 0,0005 0,0006 0,00078	
7.00 -0-0006 0-0016 0-00171	
BASE THICKNESS (IN) 1,509	

PROJECTILE LENGTH (IN) 14.665

Z1 IS DISTANCE FROM PASE (IN)

Z2 IS DISTANCE FROM NOSE (IN)

5/38 MK 66-0 LCT 91 PPDJECTILE 85

INSPECTION CATE 11/16/70

	(TAS	ne)	(OUTS	SIDE)
71	X-ACT	Y-ACT	TTR	DTA	X- AC T	Y-ACT	TTR	CIA
	0 0 2 7 1			2 626	0 6600	0 0000		
1.90		-C.0170	C.Caice	3.039		-0.0003	0.00222	4.982
2. 90		-C.01C8	0.02125	3.367		-0.0010	0.00354	5.127
3.90		-C.01:3	C.C2247	3.480	0.0036		0.00360	5.126
4.90		-0.0166	0.01694	3.61 F		-0.0005	0.00187	4.995
5. 90		-0.CC25	0.01208	?. 79?	0.0010		0.00190	4.958
6.90		-0.0119	0.01196	3.859	C. UCS &	C.0004	0.00283	4.956
7.90	C.0054	-0.0122	C. C1334	3.930	0.0014	-0.0012	0.00184	4.955
R. 90	0.00 EE	-0.0125	0.01375	3.934	0.0013	-0.0005	0.00139	4.955
9.90	C+ 00 50	-0.0118	0.01292	2.640	C. CC17	-0.0006	0.00180	4.956
	(-	INST	ne	1	(00179	SIDE)
22	X-ACT	Y-ACT	TIP	DIA	X- AC T	Y-ACT	TIR	CTA
			•		-1.		• • • • •	0
5.75	C. 01 30	-0.0168	0.02180	3.537	0.0015	-0.0003	0.00153	4.982
4.75	C. 01 ?1	-0.0143	0.01939	3.906	C. CC21	-0.0C04	0.00214	4.880
3.75	0.0129	-0.0078	0.01507	2.701	0.0013	0.0002	0.00132	4.693
3.25	0.0103	-0.0023	C.01055	3.656	0.0006	-0.0001	0.00061	4.570
2.75	C.CICS		C.01077	3.47=	0.0	0.0001	0.00010	4.470
2. 25	C. C1 C5		0-01204	3.177	C. 0C15	0.0003	0.00153	4.254
1.75	C.01C4		C.01191	2. FC4	C.CC25	-	0.00304	4.083
1.25	0.0203		C.C7114	2.570	0.0026	•	0.00292	3.891
7.3	X-ACT	Y-ACT	TTP					
1.00	0.0003	-0.0010	C.CC104					
7. CO	-0.0020	0.0041	0.00502					

BASE THICKNESS (IN) 1.502

PROJECTILE LENGTH (IN) 16.600

Z1 IS PISTANCE FROM PASE (IN)

ZZ IS DISTANCE FROM NOSE (IN)

5/38 MK 66-0 LCT 92 PROJECTILE B1

INSPECTION PATE 11/13/70

	(INS	TDE	1	(OUTS	IDE)
7.1	X-ACT		TIR	DIA	X-AC T		TIR	DIA
1.90	0.0109	-0.0006	C.C1C92	2.883	C.0C12	-0.0002	0.00122	4.984
2. 90	0.0200	-0.0025	0.02030	3.356	-0.0C17	-0.0001	0.00170	5-127
3, 90	0.0186	-0.0	C. C1860	3.470	0.0036	0.0004	0.00362	5.124
4.90	0.0197	0.0019	0. 01 579	3.583	-0.0013	0.0001	0.00130	4.984
5 . 90	0.0220	0.0025	0.02215	3.699	-0.0CC4	0.0002	0.00045	4.957
6.90	0.0218	0.0041	0.02218	3.810		-0.0003	0.00067	4.954
7.90	0.0732	0.0044	C. C2361	3.912			0.00073	4.955
8.90	0.0190	0.0050	0.C1965	7. 91 8	-0.0C18	-0.0007	0.00193	4.954
۰, 90	0.0167	0.0042	0.01722	3.926			0.00030	4.953
	(INS	tne	1	(OUTS	TDF	}
7.2	X-ACT	Y-ACT	TIR	DIA	X-ACT		TIR	CIA
5.75	0.0146	0.0057	0,01567	3.936	0.0007	0.0001	0.00071	4.986
4.75	C.0082	0.0063	0.C1C34	3.909		0.0001	0.00010	4.888
3.75	0.0055	0.0044	0.00704	3.804	0.0002	-0.0002	0.00028	4.700
3, 25	0,0069	0-0029	0,00748	3.693	-0.0010		0.00100	4.576
2.75	0.0001	0.0029	0.00955	3.537	-0.0C03	0.0002	0.00036	4.434
2.25	0.0114	C.00C5	0.01141		-0.0005	-0.0	0.00050	4.275
1.75	0.0141	-0.0026	0.01434	2.941	0.0006		0.00061	4.089
1.25	0.0168	-0.0033	0.01712	2.627	0.0003	0.0009	0.00095	3.886
23	X-ACT	Y-&CT	TIR					
1.00	-0.0009	-0.0006	C. CC109					
	-0.0002		0.00830					

BASE THICKNESS (IN) 1.501

PROJECTILE LENGTH (IN) 16.647

71 IS DISTANCE FROM PASE (IN)

Z2 IS DISTANCE FROM NOSE (IN)

5/38 MK 66-0 LCT 92 PROJECTILE 83

INSPECTION DATE 11/25/70

	(INS	DE	1	(nurs	IDE	1
71	X-ACT	Y-4CT	TIR	DTA	X-ACT	Y-ACT	TIR	DTA
1 00	0 0027	0.0010	0.00/1/	2 004		0.0000		
1,90	0.0037		0.00416	7, 986	0.0011	-0.0003	0.00114	4.987
2,90			0.01491		-0.0C23	-0.0003	0.00232	5.126
3 90	0.0110	0.0046	0.01192	3.479		0.0011	0.00163	5.127
4.90	0.0080		0.01153	3, 59?	0.0006	0.0009	0.00108	4.985
5,90	0.0083	0.0109	0.01370	3,707	C. 0C03	0.0002	0.00036	4.961
6,90	0.0082	0.0108	C.C1356	3.820	0.0030	0.0008	0.00310	4.960
7,90	0.0072	0.0111	0.01323	2.913	0.0010	0.0009	0.00135	4,961
8.90	0.0063	0.0118	0.C1338	3.917	0. OC11	0.0009	0.00142	4.961
9.90	0.0038	0.0135	0.0140?	3.922	0.0009	0.0015	0.00175	4,952
	(INST	DE)	(OUTS	IDE	1
72	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR	CIA
5.75	0.0035	0.0157	0.01609	3,931	0.0020	0.0015	0.00250	4.984
4, 75	C.0051	0.0143	0.01518	3.503	0.0029	0,0016	0.00331	4.882
3.75	0.0052		0.00563	3.735	0.0036	0.0010	0.00374	4.696
3,25	C.0047		0.00488	3.608	0.0025	0.0015	0.00292	4.573
2.75		-0.0057	C,C0720	3.468	0.0002	0.0009	0.00092	4.432
2,25		-0.0074	C.0C788	2.286	0.0034	0.0024	0.00072	4.258
1.75		-0.0105	C. C1 C51	2,965	0.0012	0.0024	0.00323	4.087
1,25		-0.0110	0,01100					
1,25	-0.0062	-9.0710	0.6.100	2.616	0.0019	0.0019	0.00269	3.885
13	X-ACT	Y-ACT	TIR					
1.00	-0.0029	-0-0038	0.00478					
	-0.0081		0,00947					

BASE THICKNESS (IN) 1.529

PRCJECTILE LENGTH (IN) 16.598

71 IS CISTANCE FROM BASE (IN)

Z2 IS CISTANCE FROM NOSE (IN)

GUN PROJECTIVE INSPECTION DATA
5/38 MK 66-0 LOT 92 PROJECTIVE 84
INSPECTION DATE 11/19/70

	(INS	TDE)	(nur	Stor	
71	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-ACT	TIR)
					, 1	1 ACT	TIK	CTA
	-0,0000	0.2020	0.01010	2.999	0.0008	-0,0008	0.00113	4 004
5, 60	-0.0027	-0.0031	0.00411	3,368		-0.0012	0.00170	4.984
3,90	-0.0050	-c 00c1	0 00590	3,483		-0.0038	0.00170	5.127
	-0.0040	0.0034	0,00690		-0.0001	0.0006		5.127
	-0.0003	0.0050	0.01101	3.70¢	C-0003	0.0001	0.00041	4.986
	-0.0080	C.0087	0.01182	3.825		-0,0005	0.00022	4.961
	-0.0058	0.0058	0.01139	3.916		-0.0004	0.00112	4.961
	-0,0103	0.)10=	0,01471		-0.0010	0.0004	0.00064	4.959
0, 90	-0.0096	0.0121	0.01545	3 023	-0.0C16	-0.0005	, 0.00112	4.960
		_		. •	-0.0019	-0.0003	0.00163	4.961
	(TNST	DF)		01170		
72	X-ACT	Y-ACT	TIP	•	V AC T		TDE)
		•	11	914	X- AC T	Y- AC T	T[Q	CIA
	-0.0070	0.0133	0.01503	3. 924	-0.0020	-0.0004	0.0000	
	- C 00 97	0.0103	0.01415	3.003	-0.0020	-0.0004	0.00204	4.984
7 75	-0,0146	0,0064	0.01594	7 75:	-0.0016	0.0007	0.00219	4.889
3, 25	-0,0177	0,0060	0.01869	3 625	-0.0013	-0.0007	0.00175	4.705
2., 75	-0.0194	0.0063	0.01945	7 / 02	-0.0013	-0.0004	0.00136	4.584
2,25	-0,0167	0.0071	C.01727	3 300	-0.0035	-0.0011	0.00367	4.440
	-0,0002	2,0082	0.01232	3 073	-0.0032	-0.0014	0.00349	4.280
	-0,0040	0.0079	C. CC225	2 (20	-0,0017	-0.0008	0.00188	4.100
			C • ((// //)	4. C. H	-0.0027	-0.0009	0.00285	3.899
72	X-7CT	Y-ACT	TŢR					
1,00	0,0070	0.0045	C COSOS					
7.00	0 0133	0.0034	0-01:73					
	•		V-1.31113					

RASE THICKNESS (IN) 1.509

PREJECTIF LENGTH (IN) 16,501

7' IS PISTANCE FROM RASE (IN)

72 IS PISTANCE FROM MOSE (IN)

5/38 MK 66-0 LCT 92 PROJECTILE 85

INSPECTION DATE 11/74/70

	(INS	ine)	(001	SIDE)
71	X-ACT	Y-ACT	9 J T	DIA	X-AC T		TIR	DIA
1 00	0,0086	0 0050						
	-0.0074	0,0059	C.C1C37	2.951	0.0018	0.0008	0.00197	4.984
	-0.0074	0.0105	C. C1296	3, 367	0.0031	0.0002	0.00311	5.122
		0.0073	0.0902	3,492	C. CC19	0.0017	0.00255	5.124
	-0.0030	0.0036	0.00462	i' èds	0.0002	0,0003	0.00036	4.994
		0.0022	0.00372	?.705	C.0006	0.0012	0.00134	4.960
	-0.0019	0.0010	0.00206	3.850	0.0038	0.0005	0.00383	4.955
7 90	-0,0039		0.00303	3,014	0.0011	-0.0007	0.00130	4.957
	-0.0042	0.0002	0.00420	3,610	0.0016	0.0002	0.00161	4.958
0,90	-0.0047	0.0003	C.CC471	3,672	-0.0003	-0.0004	0.00050	4.957
	(TAST)	(OUTS	IDE	}
7.2	X-ACT	Y-ACT	TIR	DTA	X-ACT	Y- AC T	TIR	CIA
5. 75	-0.0052	-0.0001	0,00520	2 222				
4.75	-C.0046	-0.0003	0,00461	3,000	0.0016		0.00175	4.085
	-0,0052		0,00570	3,00E	C. CCC7		0.00076	4.886
3.25	-0,0030	-0-0024	0,00459	3,704	0.0007	0.0007	0.00099	4.698
	-0.0048		0.00582	2.674	C., 0C06	0.0004	0.00072	4.576
	-0,0045			3.507	0.0C11	0.0004	0.00117	4.431
	-0.0034		0,0000	7,254	0.0009		0.00090	4.272
	-0.7052		0.00305	2,883	C. 0005	0.0003	0.00058	4.090
1127	-0.10-1	-0.0020	0.00505	7,505	0.0019	-0,0001	0.00100	3.887
2.3	X-VCT	Y-A(T	TID					
1 - 00	-0.0010	-6,0040	0.00412					
7,00	-0.0145	-0.0172	0,02250					
			W. C / W.					

BASE THICKNESS (IN) 1,542

PREJECTILE LENGTH (IN) 16.690

- 71 IS DISTANCE FROM PASE (IN)
- 72 IS CISTANCE FROM NOSE (IN)
- Z3 IS DISTANCE EPEN NOSE (IN) FOR THREAD TIR

CHA PROJECTILE INSPECTION DATA
5/38 MK 66-0 LOT SP PROJECTILE R2

INSPECTION DATE 11/30/70

	(INST	NE	1	(OUTS	10F	1
Z 1	X-ACT	Y-ACT	TIR	DIA	X-VC T	Y- AC T	TIR	CIA
	0 0010	0.0072	0 66737	2 607	0.0016	0.0008	0 001 70	4 007
1 90	-0,0010	0.0072	0.00727	2,987			0.00179	4.987
2,90	0.0107	0.0005	0.C1074	3.365	0.0034	0.0038	0.00510	5.126
3, 50	0.0096	0.0064	0.01072	3,470	0.0034	0.0042	0.00540	5.125
4,90	0.0081	0.0085	0.01174	3.594	-0.CCC5	0.0010	0.00112	4.988
5.90	0,0097	0.0050	0.C1252	3.707	0.0005	0,0007	0.00086	4.962
6.90	0.0101	0,0008	0.01340	3.822	0.0034	0.0012	0.00361	4.940
7.90	C-0104	0.0097	0,01356	3, 017	0. CC1 C	0.0002	0.00102	4.958
9,90	0.0063	0.0087	0.C1C74	3, 61 8	0.0013	0.0019	0.00230	4.960
9.90	0.0064	0.0074	C. COC7P	3,022	0.0010	0.0008	0.00128	4.958
	(INST	DE)	(OUTS	IDE)
72	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-AC T	TIR	DIA
5.75	C. 0072	0.0068	0.00990	3,927	0.0013	0.0014	0.00191	4.984
4.75	0.0085		0.01002	3,400	0.0015	0.0014	0.00219	4.881
3.75	0.0052		0.00586	3.729		0.0022	0.00219	4.696
				-	0.0011			
3.25	0.0017		0.00173	2.601	-C.0CC3	0.0021	0.00212	4.574
-	-0,0015		0.00180	2,455	-0.0006	0.0023	0.00238	4.432
	-0.0017		0.00233	3, 36.	0.0006	0.0021	0.00218	4.269
1 , 75			0.00220	2,626	0.0C19	0.0025	0.00314	4.086
1, 25	-0.0017	-0.0018	0.00248	2.600	0.0007	0.0030	0.00308	3.885
73	X-ACT	Y- 4CT	TIR					
1,00	0.0021	-0.0011	0.00237					
7.00		-0.0229	0.02302					

BASE THICKNESS (IN) 1.536

PROJECTILE LENGTH (IN) 16.675

Z1 IS DISTANCE FROM BASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GHE DECIFCATIVE INSPECTION DATA

5/38 MK 66+0 LCT CO PREJECTILE RA

INSPECTION DATE 11/25/70

	(- ~ INS	[DF)	(nuts	ine)
7 1	Y-ACT		TIP	DIA	X-AC T	Y- AC T	TER	DIA
1 cn	-0.0182	0.0076	0.01036	2.873	0.0025	0.0009	0 00344	4.985
-	-0,000		C. (2054	2,360	0.0025	0.0005	0.00266 0.00149	5.123
-	-0,0103		0.01666	2,475	-0.0006	0.0009	0.00149	5.127
	-0.0120		0.01601	3, 561	0.0012	0.0020	0.00233	4.983
	-0.0111	0.0084	0.01363	2,701	0.0012	0.0027	0.00253	4.963
	-0.0126		0.01409	3, 91 6	0.0023	0.0026	0.00347	4.961
_	-0.0104	0.00(0	0.01218	7,921	0.0019	0.0026	0.00347	4.960
	-0.0117		0.01268	3, 923	0.0013	0.0034	0.00327	
	-0.0125		0,01719	3,927	0.0023	0.0050	0.00327	4.961
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- (7.07, 1)	1,1047	0,4(1,1)	23761	0.0023	0.0040	11-00461	4.964
	1	1851	NE	1	(nuts	TOF	1
7.2	X-ACT	V-1CT	TIP	DIA	X-ACT	Y- AC T	TIR	DIA
				. ,		,	,	01-
5 75	-0.0112	0,5032	0.01165	າ, ດາ າ	0.0012	0.0019	0.00225	4.983
4,75	-0,0116	0,0047	0.01257	3.910	0.0022	0.0024	0.00326	4.888
3,75	- C = CC 07	0-(030	0,00053	7.746	0.0010	0.0024	0.00260	4.699
3,25	-0,0052	0,0015	0,00551	3,613	0.0009	0.0027	0.00285	4.579
2.75	-0.0000	- 0,00 c 2	0,00101	3,471	-0.0001	0.0020	0.00200	4.437
2 25	0.0017	-0.0006	0.00311	3,303	0.0007	0.0024	0.00250	4.273
1.75	0,077	-0,0040	0,00873	7.980	- C. OCOP	0,0029	0.00301	4.092
1 25	9,9108	-0.0072	0.01126	2,426	0.0015	0.0021	0.00258	3.891
7 7	$X - V \cup I$	$A - V \subset L$	118					
	-0.0000	0,0010	C.CC181					
7 . 00	0,000:	L' U1 (1	0,01205					
0.4.6.6	Tutous :	55 Ato.						
447	THICKAL	1101	1 500					
מפרוב	CTILE	INCTE (IN	1 14 400					
C.J .	CHE 1		r (Carun					

71 TS DISTANCE FREM MASE (IN)

72 IS DISTANCE FROM NOSE (IN)

GUN PREJECTILE INSPECTION DATA
5/38 MK 66-0 LCT 93 PROJECTILE 84

INSPECTION DATE 11/19/70

	(INS	IDE	1	(0117	SIDE	
71	X-VC.	T Y-ACT	TIR	DIA	X- AC 1	Y-ACT	71R)
1 0						. 401	TIK	CIA
1 90		-0.0044		2.965	0.0011	0.0006	0.00125	4 004
2,9(4 -0.0067	0.00861	3.364		-0.0007	0.00184	4.984
3.50		-0.0055	0.01133	3.477		-0.0003	0.00067	5.124
4,90		-0.0046	0.01202	3.591	-0.0009		0.00095	5.123
5,90	******	-0.0042	0.01206	3.705	-0.0005		0.00054	4.985
4, 90		-0.0046	C. C1398	3.821	0.0012		0.00034	4.955
7, 90		-0,0057	0.01465	3. 91 8	0.0009	-0.0004	0.00120	4.954
9,40		-0.0060	0.01441	3.920	0.0004			4.954
9, ç()	0.0130	-0.0063	0.01445	7.925	0.0002		0.00057 0.00028	4.953
					34 17 6 6 2	0.0002	0.00028	4.953
• •	(TNST	NE)	(OUTS	IDE -	
12	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y- AC T	TIR)
	1					1 401	118	DIA
5 75		-0.0072	0.01392	3, 934	0.0012	0.0	0.00120	
4.75		-0.0091	0.01245	2.913	0.0012	0.0003	0.00120	4.984
3.75		-0,0061	0.CC758	3.910	0.0009	-0.0		4.888
7, 25	0.0024	-0.0037	C.CC441	7. 495	0.0011	0.0004	0.00080	4.702
2.75		-0.0023	0.00259	2.534	0 · C	0.0002	0.00117	4.578
2.25		-0.0011	0,00228		-0.0007		0.00020	4.437
1,75	0.0020	C-00C4	0.00203	2,525	0.0C14	0.0001	0.00099	4.277
1.25	0.0053	0.0013	0.00 546	2,424	0.0015	0.0003	0.00140	4.091
					3 6 9 (0 1)	0.0003	0.00153	3.890
72	X-ACT	Y-ACT	TIR					
1.00	-0.0023	-0.0020	0.00305					
7. CO	-0.0044	-0.0233	0.02375					
					•			

BASE THICKNESS (IN) 1.550

PROJECTILE LENGTH (IN) 16.662

- 21 IS PISTANCE FROM PASE (IN)
- 22 TO STANCE FROM MOSE (TM)
- ZP IS DISTANCE FROM MOSE (IN) FOR THREAD TIR

5/38 MK 66-0 LCT 93 PROJECTILE B5

INSPECTION DATE 11/23/70

	(INS	IDE	1	(OUTS	IDE)
Z1	X-ACT	Y-ACT	TIP	DIA	X- AC T	Y- AC T	TIR	CIA
		0 0100	0.03.051	2 04 7	0 0003	0 0010	0.001.03	4 074
1 90	0.0021	0 0103	0.01051	7,067		0.0018	0.00182	4.976
2 90	0,0050	0.0053	0.00729	3.367		0.0009	0.00120	5.126
3, 90	0,0059	0.0058	0.00827		-0.0601	0.0014	0.00140	5.127
4 90	0 0058	0.0078	0.00572		-0.0005	0.0005	0.00054	4.986
5.90	0,0054	0.0077	0.01215		-0.0C16	0.0014	0.00213	4.957
6, 90	0-0110	0.0059	0.01480	7,870	0.0003	0,0016	0.00163	4.957
7 90	0 0103	0.0102	0.C1450	3.912	-0.0008	0,0019	0.00206	4.956
R, 90	0.0121	0.0117	0.01683	3.912	-0.0C22	0.0017	0.00278	4.955
9.50	0.01.27	0.0127	0.01796	3.916	-0.0012	0.0015	0.00192	4.957
	(INST	DE	1	(nurs	IDE)
72	X-ACT	Y-ACT	TIR	DIA	X-ACT	Y-AC T	TIR	DIA
5, 75	0,0160	0.0146	0.02156	3, 92 5	-0.0007	0.0006	0.00092	4.984
4.75	0.0163	0.0140	0.02149	3.903	-0.0CC1	0.0018	0.00180	4.892
3.75	0.0126	0.0078	0, 01 482		-0.0007	0.0024	0.00250	4.705
3, 25	0.0104	0.0028	C. 01 C77		-0. CC25	0.0018	0.00308	4.582
2.75		-0.0038	0.01 CBB		-C.0C05	0,0016	0.00168	4.440
2.25		-0.0058	0.C1204		-C.CC16	0.0017	0.00233	4.280
1,75		-0.0163	0. C1 66 7	• • • •	-0.0001	0.0017	0.00170	4.098
1, 25		-0.0132	0.01405		-0.0001	0.0021	0.00218	3.896
10 20	-0.0046	-0.0132	0.01402	2.02	-0.0006	0.0021	0.00216	3.090
73	X-ACT	Y-ACT	TIR					
1.00	-0.0052	0.0008	0.00526					
	-0.0035		0.00350					
	., , , , , , , , , , , , , , , , , , ,	.,	510070					

BASE THICKNESS (IN) 1.473

PREJECTILE LENGTH (IN) 16,587

ZI IS CISTANCE FROM PASE (IN)

22 IS DISTANCE FROM NOSE (IM)

GUN PROJECTIVE INSPECTION DATA

5/38 MK 66-0 LCT 94 PROJECTILE B2

INSPECTION DATE 11/12/70

	(INST	NF	1	(CUTS	IDE)
7.1	Y-ACT		TIR		X-AC T		TIR	DIA
1,90	0.0175	0.0132	0.02199	2.584	C. CC1 9	-0.0002	0.00191	4.983
2,90	0.0034	0.0079	0,00859	3.773	-0.0020	0,0034	0.00394	5.125
3,50	0.0046	0.0073	C.00863	3.486	-0.0009	0.0040	0.00410	5.126
4,90	0.0034	0.00 53	0.0630	3.59P	-0.0043	-0.0005	0.00433	4.986
5,90	0.0005	0.0030	0.00304	2.717	-0.0C19	-0.0010	0.00215	4.962
6.90	0.0078	0.0038	0.00672	3.828	-0.0022	-0.0001	0.00220	4.963
7.90	0.0001	0.0032	0.00350	3.921	-C.CC1C	-0.0010	0.00141	4.962
9 90	-0.0030	0.0030	0,00492	3.925	-0.0C13	0.0002	0.00132	4.962
9,90	-0.0064	0.0038	0.00744	3.929	-0.00C4	0.0006	0.00072	4.962
	(TAST	DF	1	(DUTS	IDE)
7.2	X-ACT	Y-ACT	TIR	DIA	Y-ACT	Y-AC T	TIR	CTA
1 6	×-111	1 - AC 1	117	17 1 4	A-40 I	1-401	110	UI M
1.6	X-4()	1 - AC 1	117	1) T A	A-4CT	1- AC 1	'IK	
		0.0039	0.00854		-0.0CC5	0.0008	0.00094	4.984
5,75	-0.0076			3.938			• • • • • • • • • • • • • • • • • • • •	
5, 75 4, 75	-0.0076	0.0039 0.0034	0.00854	3.93F	-0.0005	0.0008	0.00094	4.984
5,75 4,75 3,75	-0.0076 -0.0064 -0.0068	0.0039 0.0034	0.00854 0.00725	3.938 3,915 3,813	-0.0CC5 -0.0C20	0.0008 0.0001	0.00094 0.00200	4.984 4.886
5,75 4,75 3,75 3,25	-0.0076 -0.0064 -0.0068 -0.0069	0.0039 0.0034 0.0025	0.00854 0.00725 0.00724	3.93F 3,915 3,813 3.696	-0.0CC5 -0.0C20 -0.0C25	0.0008 0.0001 0.0004	0.00094 0.00290 0.00253	4.984 4.886 4.698
5, 75 4, 75 3, 75 3, 25 2, 75	-0.0076 -0.0064 -0.0068 -0.0069	0.0029 0.0034 0.0025 -0.0	0.00854 0.00725 0.00724 0.00680	3.938 3,915 3,812 3.696 3.534	-0.0005 -0.0020 -0.0025 -0.0021	0.0008 0.0001 0.0004 0.0015	0.00094 0.00200 0.00253 0.00258	4.984 4.886 4.698 4.575
5,75 4,75 3,75 3,25 2,75 2,25	-0.0076 -0.0064 -0.0068 -0.0069 -0.0067	0.0029 0.0034 0.0025 -0.0	0.00854 0.00725 0.00724 0.00680 0.00734	3.93F 3,915 2,813 3.696 3.534 3.293	-0.0005 -0.0020 -0.0025 -0.0021 -0.0028	0.0008 0.0001 0.0004 0.0015 0.0008	0.00094 0.00200 0.00253 0.00258 0.00291	4.984 4.886 4.698 4.575 4.435
5,75 4,75 3,75 3,25 2,75 2,26 1,75	-0.0076 -0.0064 -0.0068 -0.0069 -0.0060 -0.0100	0,0039 0,0034 0,0025 -0.0 -0.0025 -0.0049	0.00854 0.00725 0.00724 0.00680 0.00734 0.01114	3.93F 3,915 2,813 3.696 3.534 3.293 2.926	-0.0005 -0.0020 -0.0025 -0.0021 -0.0028 -0.0025	0.0008 0.0001 0.0004 0.0015 0.0008	0.00094 0.00200 0.00253 0.00258 0.00291 0.00262	4.984 4.886 4.698 4.575 4.435
5,75 4,75 3,75 3,25 2,75 2,26 1,75	-0.0076 -0.0064 -0.0068 -0.0069 -0.0060 -0.0100	0,0039 0,0034 0,0025 -0.0 -0.0025 -0.0040 -0.0026	0.00854 0.00725 0.00724 0.00680 0.00734 0.01114	3.93F 3,915 2,813 3.696 3.534 3.293 2.926	-0.0005 -0.0020 -0.0025 -0.0021 -0.0028 -0.0025	0.0008 0.0001 0.0004 0.0015 0.0008 0.0008	0.00094 0.00200 0.00253 0.00258 0.00291 0.00262 0.00201	4.984 4.886 4.698 4.575 4.435 4.270 4.089
5,75 4,75 3,75 3,25 2,75 2,26 1,75	-0.0076 -0.0064 -0.0068 -0.0069 -0.0060 -0.0100	0,0039 0,0034 0,0025 -0.0 -0.0025 -0.0040 -0.0026	0.00854 0.00725 0.00724 0.00680 0.00734 0.01114	3.93F 3,915 2,813 3.696 3.534 3.293 2.926	-0.0005 -0.0020 -0.0025 -0.0021 -0.0028 -0.0025	0.0008 0.0001 0.0004 0.0015 0.0008 0.0008	0.00094 0.00200 0.00253 0.00258 0.00291 0.00262 0.00201	4.984 4.886 4.698 4.575 4.435 4.270 4.089
5,75 4,75 3,75 3,25 2,75 2,25 1,75 1,25	-0.0076 -0.0064 -0.0069 -0.0069 -0.0060 -0.0100 -0.0101 -0.0103	0,0039 0,0034 0,0025 -0.0 -0.0025 -0.0049 -0.0026 0,0036	0.00854 0.00725 0.00724 0.00680 0.00734 0.01114 0.01042 0.01091	3.93F 3,915 2,813 3.696 3.534 3.293 2.926	-0.0005 -0.0020 -0.0025 -0.0021 -0.0028 -0.0025	0.0008 0.0001 0.0004 0.0015 0.0008 0.0008	0.00094 0.00200 0.00253 0.00258 0.00291 0.00262 0.00201	4.984 4.886 4.698 4.575 4.435 4.270 4.089

PASE THICKNESS (IN) 1.529

PROJECTILE LENGTH (IN) 16.656

71 IS FISTANCE FROM RASE (IN)

72 IS DISTANCE FROM NOSE (IN)

5/38 MK 66-0 LOT S4 PROJECTILE 83

INSPECTION DATE 11/24/70

	(INS	IDE)				
21	X-ACT		TIP	DIA		001)
			•	OTA	X-ACT	Y-ACT	TIR	DIA
1,90	-C.0048	-0,0036	0,00600	2. 57	0 0001			
2, 90	00087	-0.000	0.00875		-,0001	-0.0006	0.00061	4.984
3, 50	0-0043	-0.0052	0,00675	3,750		0.0037	0.00430	5.124
4,90	0.0021	-0.0087		3.475		0.0054	0.00560	5.121
5.90		-0.0013	0.00895	3,588	-0.0Cl1	0.0005	0.00121	4.986
5, 90		-C.01C7	C, ((13 (3,704		0.0019	0.00276	4.959
7, 90			0.01076	3, 917	C. 0008	0.0014	0.00161	4.955
	-0.0003	-0.0113	0.01133	3.919	0.CC16	0.0017	0.00233	4.956
0 00	-0.0007	-0-0126	0.01262	3.021	0.0009	0.0011	0.00142	4.955
4 4()	-0,004	-0.0140	0.01446	3,924	0.0004	0.0009	0.00098	4.955
								76777
	(INS	IDF	1	(CUTS	IDE)
72	X - VCL	Y-ACT	TIR	DIA	X-AC T	Y-ACT	TIR	•
						. 40.	110	DIA
		-0.0124	0.01281	3,935	C. 0CC4	0.0019	0.00194	4 04 2
4 75	-0,0040	-0 0130	C. C1385	3.910		0.0018		4.982
3,75		-0.0122	0.01729		-0.CCO8	0.0005	0.00190	4.891
7, 25	0.0001	-0.0113	0.01130	3.484	-C.OC13		0.00094	4.702
2,75	0.0028	-0,00,60	0.00933	7. 621	-0.0C15	0.0008	0.00153	4.579
2,25		-0,0086	0.01216	3 270	-C.0C04	0.0005	0.00158	4.438
1,75		-0.0088	0.01730	2 01 6	C. 0004	0.0007	0.00081	4.277
1,25		-0.0111	0.01494		-0.0009	0.0010	0.00135	4.092
		• 17 ; 11	0,01494	2.625	0.0001	0.0016	0.00160	3.890
72	X-ACT	Y-ACT	7.10					
		1 - 11 (1	7 10					
1 - 00 -	ר, חמרי	0,0011	0 0011-					
	0.0090		0,00112					
. 3 1717	17 9 [1117:557	0.000	C. CERCE					

BASE THICKNESS (IN) 1.541

PPCJFCTILE LENGTH (IN) 16.657

- 71 IS DISTANCE FORM BASE (IN)
- 32 IS DISTANCE FORM MOSE (IN)
- 73 IS DISTANCE FROM MOSE (IN) FOR THREAD TIR

GUN PROJECTILE INSPECTION DATA

5/39 MK A6-0 LOT 94 PROJECTILE 84

INSPECTION DATE 11/12/70

••	(INST		1			IDE)
71	X-ACT	Y-ACT	TTR	DIA	X-AC T	Y-AC I	TIR	CIA
1,50	0.0060	-0.0072	0.00537	2.590	-0.0019	-0.0012	0.00225	4.983
2.90		-0.0113	C. C1663	· -		-0,0007	0.00106	5.123
3.90	0.0074	-C.0038	0.00832	3.483	-C.CCC1	0.0001	0.00014	5.125
4 90	0,0056	-C.00C2	0.00560	3.594	-0.0008	-0.000R	0.00113	4.983
5, 90	0.0045	0.0017	C. CC481	3.713	-0.0C12	-0.0000	0.00150	4.954
6.90	0,0024	0.0033	0,00408	3.826	0.0005	-0.0005	0.00071	4.955
7, 90	0,0027	0.0048	0.00551	3.921	0.0013	0.0	0.00130	4.955
3.90	0.0004	0.0048	C.CC482	3.520	-0.0009	-0.0004	0.00098	4.945
9,90	-0.0313	0.0048	0,00497	3.074	0.0012	0.0006	0.00134	4.952
		INST	UE)	-		ine)
77	X-ACT	Y-ACT	7 10	DTA	X- AC T	Y- AC T	TIR	CIA
c 75	-0.0015	0.0049	0,00503	3.531	0.0021	0.0002	0.00211	4.985
	-C.00CA		0,00556	3,005		-0.0002	0.00032	4.886
-	-C.0042		0.00528	3.732	0.0004		0.00057	4.699
	-0.0052	0.0002	0.00520	3,604	0.0012	0.0002	0.00122	4.576
		-0.0020	0.00728	2,450	0.0012	0.0006	0.00134	4.434
2, 25	-0.0073	-0.0028	0.00792	3,268	0.0014	-0.0002	0.00141	4.273
1.75	-0.0002	0.0	0.0920	2, 626	0.0026	C.0003	0.00260	4,090
1,25	-C.0065	0.0030	0,00715	2,607	0.0031	0.0013	0.00336	3.880
72	X-DCT	Y-VCT	TIR					
1 00	0.0030	0.0012	0.00323					
1.00	0.0030							
7.00	0.071¤	-0.0135	0.02564					

RASE THICKNESS (IN) 1.478

PROJECTILE LENGTH (IM) 16.659

ZI IS DISTANCE FROM PASE (IN)

72 IS DISTANCE FROM NOSE (IN)

5/18 MK 66-0 LCT 94 PROJECTILE 85

INSPECTION DATE 11/20/70

	(INS	IDE	1				
7 1	X-ACT	Y-ACT	TIR	DIA	•	001	sine)
			· • •	DIA	X-ACT	Y-AC T	TIR	CIA
1 , 90	0.0118	-0.0068	0-01534	2 0/1				
2.90	0. 0149	-0.0073	0.01659	2 2 3 3 5	-0.0023		0.00244	4.996
3,90	0.0041	-C-01C2	C.01009	3 496	-C.0005	0.0025	0.00255	5.125
4, 90	0.0003	-0.0105	C.C1C50	3.465	-0.0011	0.0006	0.00125	5.124
5.90	-0.0024	-0.00E1	0.00645	3.662	0.0002	0.0013	0.00132	4.989
6.90	-0.0059	-0.0050	C.C1C71	2 032	-0.0C15	0.0COP	0.00170	4.954
7. 90	-0.0082	-0.0102	0.01309	2 01/	0.0001	0.0000	0.00091	4.954
9.90	-0,0075	-0.0083	0.01119	3 614	-0.0C12	0.0017	0.00208	4.954
9,90	-0.0101	-0-0057	0.01400	3 636	-0.0015	0.0013	0.00198	4.952
			0.0.400	1. 921	-0.0C1 R	0.0010	0.00206	4.952
	(TAST	NE	1				
72	X-ACT	Y-ACT	TIP	-	1	OUTS	IDE)
				UIV	X- AC T	Y- AC T	TIR	CTA
5, 75	-C-0100	-0,0058	0:01400	3 (3/	0 000 0	_		
4 75	-0,0000	-0.0052	C.C1210	3 607	-0.0C1C	0.0015	0.00190	4.986
3,75	-0,0061	-0.0072	0,00544	3,600	-0.0C14	0.0019	0.00236	4.884
7, 25	-0.006P	-0.0063	0.00027	3.555	-0.0019	0.0015	0.00242	4.608
7. 75	-C. CO74	-0,0039	0.00833	7 (00	-C.CC28	0.0016	0.00322	4.575
2 25	-0.0053	- 0,0007	0.00535	3 31 0	-0.002P	0.0017	0.00320	4.433
1.75	-0.0026	0.0038	C. C0450	3 004	-0.0019	0.0011	0.00550	4.249
1.25	0.0146	0.0042	0-01-19	2.560	-0.0021	0.0022	0.00304	4.088
				2 . TO F	-0.0C21	0.0016	0.00264	3.886
73	X-ACT	Y-ACT	TIP					
			• *					
1.00	-0.0002	-0,00(8	C.OCCA?					
7.00	0.0030	0.0026	0 00797					
	_							
HASE	THICKNES	CIALL	1 454					

RASE THICKNESS (IN) 1.456

PREJECTILE LENGTH (IN) 16,661

- ZI IS DISTANCE FROM PASE (IN)
- 72 IS DISTANCE FROM NOSE (IN)
- 27 IS CISTANCE FROM MOSE (IN) FOR THREAD TIR

CHA DOCUECTIVE INSPECTION DATA

INSPICTION DATE 11/10/70

	(TAS	IDE)	1	OUT	CIDE	
71	Y- ACT	Y-ACT	TTR	DIA	X- AC T		SIDE)
				,	7 40 1	Y-ACT	TIR	CIV
1 . 20	0.0141	0 0125	0,01884	7.000	0.0003	-0,0005	0.0000	
s c0	(,()(0	0.01212	2, 767		-0.0003	0.00054	4.985
3 40	U=UCc3	2,0010	0.00045			-0.0018	0.00316	5.125
6 GO	0,0051	- ר, חחרי	0.000.1	2,505	-0.0001		0.00180	5.125
5.99	ויים מוחים	-0.0076	0.00475			0.0001	0.00014	4.985
4 00	0.0030	-0.0049	0,005/4	3,000	0.0004	-0.0006	0.00190	4.962
ان ، د	0.0077	-7.7042	C.COLTC	3,520			0.00050	4.064
9, 50		-0.7049	C.CCFOC			-0.0002	0.00102	4.063
טכ י		-0.0061	O.CCEA4	2 221	-0.000g	0.0002	0.00083	4.962
				•	-0.0001	-0.0004	0.00041	4.962
	1	TAST	nr	1		_		
7 7	X-ACT	Y-ACT	TTR	•		nurs	IDF)
			. , .	UIV	X- AC T	Y-ACT	TIR	CIA
5 75	0.0072	-7.00 ==	C, ((FC)	3,321	0.0014			
4 75	0.00.2	-0,0060	0.00612	3,00=	,	0.0001	0.00160	4.982
7 75	-ר חחיה	-0.2024	0.00422	3 ຄາກ ວຸຄາກ	90000		0.00061	4.894
, 75	- 0 0041	-0.0013	0.00674	3, 4CE	-0.0012	0000	0.00122	4.704
7 75	- C , CC 2O	0,0010	0,00004		-0.0003		0.00035	4.578
	-1.0000		0.00064	3, 571	-0.0003	0.0	0.00050	4.436
	-0,0044	0.0062	0.00006	7,70,	0.0000	0.0008	0.00120	4.275
	-0.0050	0.3112	0.01741	2,010	0.0014	0.0008	0.00161	4.088
-		, , , , ,	11. () / 2 .	2.616	0.0001	0.0007	0.00071	3.886
72	X-ACT	Y-ACT	7.70					
		1-011	TTP				•	
1.00	-0, (())	-0 0013	0 00773					
7,00	0.007/		0,00273					
•	- 1		0.02615					

SVEE THICKNESS (IN) . 7 400

DOUTELLIFE I WILL (IN) 16.405

71 IS FISTANCE FORM DASE (IN)

TO TS DISTANCE FORM MISE (IN)

3- IC LICIANCE ESCH HUCE (IN) EUD THEEN TIE

GUN PROJECTILE INSPECTION DATA 5/38 MK 46-0 LOT 95 PROJECTILE 83 INSPECTION DATE 11/17/70

	(INSI	ne	1	(nurs	IDE)
7 1	X-ACT	Y-ACT	TIP	DIA	X-AC T		T[R	CIA
חרי ד	0 0164	0.0056	0.01900		-0.CC18	0,001C	0.00206	4.085
5 2 40	0.0141	0.0150	0.02059	3,364		-0.0050	0.00244	5.1.23
3, 90	C Gisa	7.3129	0.01824	3,481			0.00282	5.126
4,00	0.0006	0-0065	0.01330		-0.0004		0.00136	4.983
5 90	0.0097	0,0071	0.01202		-0.0CC1	0.0050	0.00200	4.961
5. 90	0,0114	0,0054	0.01478	7.825	0.0013	0.0024	0.00273	4.959
7,90	0.0061	0.0079	0,0090	3.051	0.0007	0,0020	0.00212	4.061
8,90	0.0038	0,0046	0.00597	3,919	0.0003	0.0030	0.00301	4.959
9,90	0.0037	0,0049	0.00614	2, 922	-0.0006	0.0032	0.00326	4.959
								•
	(INST	DE)	('-	DUTS	IDE)
72	$X - \Delta C T$	Y-ACT	TTR	DTA	X-AC T	Y- AC T	TIR	CIA
5.75	0.0060	0,0064	0.00877	3,62 6	-0.0001	0.0033	0.00330	4.985
4.75	.0.0049	0.0062	0,00790	3.907	C.0C09	0.0038	0.00391	4.884
2.75	0.0048	0,0055	0.00730	2,747	0.0003	0,0048	0.00481	4.698
3.25	0.0036	0.0040	0.00=38	2,619	-0.0002	0,0046	0.00460	4.576
? 75	0-0026	0,0017	0.00311	3.474	-0.0	0.0041	0.00410	4.435
? ?5	0,0006	0.0018	0.00100		-0.0013	0,0039	0.00411	4.271
1,75	-0,0005	0.0037	0.00373		0.0012	0.0043	0.00446	4.000
1.25	-0,0010	1,0039	0,00403	2.619	-0.0	0.0037	0.00370	3.889
-				-				
73	X-ACT	Y-ACT	TIR					
1 - CO	0.0016	0.0003	0,00163					
	-0.0008	-0,0010	0.00128					
BASE	THICKNES	S (IN)	1, 620	•				
			·					
PR 0.15	CTILELE	NOTH (IN	1 16.457					
_ 0		•						

ZT TS CISTANCE FROM PASE (IN)

Z2 IS DISTANCE FROM MOSE (IN)

ZO IS CISTANCE FORM MISE (IM) FOR THORAD TIP

GUN PROJECTILE INSPECTION DATA

5/38 MK 66-0 LOT GE PROJECTILE 85

INSPECTION DATE 11/06/70

		165	tne)	(nur	SIDE)
7 1	Y-ACT	Y-ACT	TTR	DIA	X-AC T		TIR	CIA
	-0,0000		O COFPT	2,063	-0.0022	-0.0011	0.00246	4.083
	-0.0000		C'LC38E	2. 250	0.0029	-0,0006	0,00296	5.128
	-0,0017	0.0026	C.CC211	3,473	0-0017	-0.001 C	0.00197	5.123
	-0.0013	0,0044	0,00455			-0.0004	0.00175	
	-0.00:7	0,0052	C. CO 547	2,704	-0-0C15	-0,0004		4.093
6 00		U. CCEE	0.00576	2,810	-0.0015	-0.0004	0.00155	4.055
7 90	0.0074	0.0062	0,00707	2.916	0.0001	-0.0019	0.00242	4.956
3,00	1 0702	0,0071	C. CC710	3.010	-0.0020	-0.0003	0,00032	4.955
0 . 30	0.0013		0,00742	3 (21	-0.0020	-0,0001	0.00200	4.955
			0411172	24 77 6	-0.001 C	-0.0005	0.00117	4,054
	(1851	DE		,			•
7 2	X-ACT		TTR	A10	(OUTS)
			, ,	17 1 74	X- AC T	Y-ACT	TIR	CTA
5 75	0.0024							
5 75 4 75	0.0024	0,0084	0.00974	7,024	-0.0004	0,0007	0.00081	CT A 4.983
4 75	0,0018	0,00F4 0,00F9	0.00974	3,024	-0.0004 -0.0007	0,0007	0.00081 0.00081	
4 75 2,75	0,0018 0,0020	0,00F4 0,00F6 0,00F6	0.00 474 0.01 00 6 0.00 551	3,024 3,001 3,780	-0.0004 -0.0007 -0.0019	0,0007 0,0004 0,0003	0.00081	4.983
4 75 2,75 2 25	0,0018 0,0020 0,0024	0,00F4 0,00C0 0,00C3 0,00C0	0.00974 0.01006 0.00551 0.00546	3, 024 3, 001 3, 780 3,670	-0.0004 -0.0007 -0.0019 -0.0009	0,0007	0.00081 0.00081	4.983 4.890
4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0,0018 0,0020 0,0024 0,0020	0,00F4 0,00F9 0,00F9 0,00F0 0,0074	0.00.974 0.01.006 0.00.51 0.00.46 0.00.384	3,024 3,001 3,780 3,670 3,507	-0.0004 -0.0007 -0.0019 -0.0009	0,0007 0,0004 0,0003	0.00081 0.00081	4.983 4.890 4.703 4.580
4.75 2.75 3.25 2.75 2.25	0,0018 0,0020 0,0024 0,0020 0,0047	0,0064 0,0066 0,0060 0,0060 0,0074	0.00.974 0.01.006 0.00551 0.00646 0.00384 0.00671	7, 024 3, 001 3, 780 3, 670 3, 607 3, 766	-0.0004 -0.0007 -0.0019 -0.0009 -0.0016 -0.0013	0,0007 0,0004 0,0003 0,0004	0.00081 0.00081 0.00192 0.00098	4.983 4.890 4.703 4.580 4.437
4 75 2 75 3 25 2 75 2 26 1 75	0,0018 0,0020 0,0024 0,0020 0,0047	0.0064 0.0060 0.0060 0.0060 0.0074 -0.3007	0.00.974 0.01.006 0.00646 0.00646 0.00671 0.00620	7.024 7.001 3.780 7.670 7.607 7.766 7.894	-0.0004 -0.0007 -0.0019 -0.0009 -0.0016 -0.0013	0.0007 0.0004 0.0003 0.0004 0.0007	0.00081 0.00081 0.00192 0.00098 0.00175 0.00130	4.983 4.890 4.703 4.580 4.437 4.277
4 75 2 75 2 75 2 76 2 76 2 76 1 75	0,0018 0,0020 0,0024 0,0020 0,0047	0,0064 0,0066 0,0060 0,0060 0,0074	0.00.974 0.01.006 0.00551 0.00646 0.00384 0.00671	7.024 7.001 3.780 7.670 7.607 7.766 7.894	-0.0004 -0.0007 -0.0019 -0.0009 -0.0016 -0.0013	0.0007 0.0004 0.0003 0.0004 0.0007 0.0001	0.00081 0.00081 0.00192 0.00098 0.00175 0.00130 0.00202	4.983 4.890 4.703 4.580 4.437 4.277 4.098
4 75 2 75 2 75 2 75 2 75 2 76 1 75 1 75	0,0018 0,0020 0,0024 0,0020 0,0047 0,0090	0.0084 0.0089 0.0089 0.0060 0.0074 -0.0074 -0.0078 -0.0130	0.00.974 0.01.006 0.00646 0.00646 0.00671 0.00620	7.024 7.001 3.780 7.670 7.607 7.766 7.894	-0.0004 -0.0007 -0.0019 -0.0009 -0.0016 -0.0013	0.0007 0.0004 0.0003 0.0004 0.0007 0.0001 0.0011	0.00081 0.00081 0.00192 0.00098 0.00175 0.00130	4.983 4.890 4.703 4.580 4.437 4.277
4 75 3 75 3 25 2 75 2 26 1 75	0,0018 0,0020 0,0024 0,0020 0,0047	0.0064 0.0060 0.0060 0.0060 0.0074 -0.3007	0.00.974 0.01.006 0.00646 0.00646 0.00671 0.00620	7.024 7.001 3.780 7.670 7.607 7.766 7.894	-0.0004 -0.0007 -0.0019 -0.0009 -0.0016 -0.0013	0.0007 0.0004 0.0003 0.0004 0.0007 0.0001 0.0011	0.00081 0.00081 0.00192 0.00098 0.00175 0.00130 0.00202	4.983 4.890 4.703 4.580 4.437 4.277 4.098
4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0,0018 0,0020 0,0024 0,0020 0,0047 0,0090 -0,0	0.0064 0.0066 0.0060 0.0060 0.0024 -0.0027 -0.1018 -0.0120 Y-ACT	0.00 974 0.01 006 0.00 51 0.00 646 0.00 384 0.00 671 0.00 820 0.01 200	7.024 7.001 3.780 7.670 7.607 7.766 7.894	-0.0004 -0.0007 -0.0019 -0.0009 -0.0016 -0.0013	0.0007 0.0004 0.0003 0.0004 0.0007 0.0001 0.0011	0.00081 0.00081 0.00192 0.00098 0.00175 0.00130 0.00202	4.983 4.890 4.703 4.580 4.437 4.277 4.098
4 75 2 75 3 25 2 75 2 25 1 75 1 25 1 25	0,0018 0,0020 0,0024 0,0020 0,0047 0,0090 -0,0 X-ACT	0.0064 0.0060 0.0060 0.0060 0.0074 -0.0077 -0.0018 -0.0130 Y-ACT	0.00 974 0.01 006 0.00 51 0.00 646 0.00 384 0.00 671 0.00 820 0.01 200	7.024 7.001 3.780 7.670 7.607 7.766 7.894	-0.0004 -0.0007 -0.0019 -0.0009 -0.0016 -0.0013	0.0007 0.0004 0.0003 0.0004 0.0007 0.0001 0.0011	0.00081 0.00081 0.00192 0.00098 0.00175 0.00130 0.00202	4.983 4.890 4.703 4.580 4.437 4.277 4.098
4 7 5 3 7 5 3 7 5 3 7 5 2 7 5 2 7 5 1 7 7 1 7 7	0,0018 0,0020 0,0024 0,0020 0,0047 0,0090 -0,0	0.0064 0.0066 0.0060 0.0060 0.0024 -0.0027 -0.1018 -0.0120 Y-ACT	0.00.874 C.01.006 0.00551 0.00546 C.00384 C.00671 0.00620 0.01200	7.024 7.001 3.780 7.670 7.607 7.766 7.894	-0.0004 -0.0007 -0.0019 -0.0009 -0.0016 -0.0013	0.0007 0.0004 0.0003 0.0004 0.0007 0.0001 0.0011	0.00081 0.00081 0.00192 0.00098 0.00175 0.00130 0.00202	4.983 4.890 4.703 4.580 4.437 4.277 4.098

SYCE THICKNESS (IN) 1 -EIC

PROJECTIVE ERMOTH (IN) 16,457

71 IS CISTANCE FROM PASE (IN)

72 TS PISTANCE FORM MASE (IN)

72 TS FISTANCE ERCH MOSE (IN) FOR THEFAD TIE

GUN PROJECTIVE INSPECTION DATA

5/38 MK 66-0 LCT OF DROBERTIVE R 4
TNSPECTION DATE 11/04/70

	V	INST	ŋf	1	1- =	- mr19	SIDE)
71	X-107		TTO	014	X-40 T	Y- AC T	TIP	CTA
	-010055	0,0164	0,01730	3 666	-0.0009	-9,0014	0.00161	4.994
	-C CO70			7,756				
	-0,0021		0.01720			-0,0006	0.00444	5.126 5.128
		0,0145		3,474		-0,0011	0.00376	
4 90	0,0000		0.01460	2,501	0.0002		0.00036	4.994
5,50	0,0041		0.01307	7.704	0.0011	0,0005	0.00121	4.96?
5.90	ר, רחפון		0.01417	2,010	0.0	0.0004	0,00040	4.960
7 90	0,0094	ח יוירים	0,01381	3,010	0.0010	0.0005	0.00112	4.961
9 CU	רר ממיים	0.00ca	9,01270		C.CCC3	0.0007	0.00106	4.959
3,00	0,0100	ח, ררנה	5,01163	3,013	0.0001	-0,0001	0.00014	4,960
	(1851	n=	1	(חוודי	TOF)
7 ?	X - 1 (T	Y-10T	TTO	DIA	X-AC T	Y-ACT	TIR	CIV
c 75	ורים, ח	ח, מר די	n.n:225	3,000	0.0011	-0,0005	0,00121	4.985
4.75	0,0142		0,01620	2, 407		-0,0005	0,00158	4.998
7 75	ר , רו פיז		0.0000		-0,0010	•	0.00102	4.701
1,25	1,0947		0,00484			0,0003	0.00085	4.580
	-0.0004		0.00143		-0.0025		0,00350	4.440
า๋วธ	-0,000	1,011	0.00163			-0,0006	0.00209	4,277
1 75			0,00340			-0.0009	0.00192	4.097
្រែក	r, aar4	0,0100	0.01001			-0,0005	0.00054	2,995
77	X - ACT	Y-^(T	7 7 2					
1.00	-0,0124	1,1010	0,00354					
		-9,0177	0,01797					
RASE	THICKNE	CC ([N])	1,610					
DOC 16	CIUSI	CNOTE (IN	1 14 500					
, ,			, , ,					
71 19	CISTANI	CE EGON B	ASE (TAI)					
			, , , , ,					
72 19	EISTAN	רב בסלא או	OSE (TNI)					
71 19	CISTAN	LE ESUM .	JCE (INI)	EUS THOS	AN TIP			

GUN PREJECTILE INSPECTION DATA

5/38 MK /4-0 LOT OF DROJECTILE B2

INSPECTION PATE 13/13/70

	1	INST	PF	1	1	OUTS	IDF	1
71	X-ACT	Y-ACT	Q T T	,	X-AC T		T19	DIA
	0.0065	0.000	0.00671	2 056	0 0005	0 0000	0.00057	
	-0.0000		0.00071	2,050	· ·	-0.0002	0.00054	4.086
	-0,7005		0.00433		0.0001		0,00170	5.125
	-0,0023		0,00733		-0.0054		0.00604	5.128
-	-0,0043	0.0005	0.00433	3 EG.			0.00391	4.097
	-0.0043	0.0018	0,00457		-0.0033		0.00330	4.061
	-0,0040	0.0030	(,((;;;		-C.CC24		0.00240	4.955
	-0.0030	0.0045	3,00 = 41	·	-0.0000		0,00000	4.055
	-0.00 = 1		C . C C + C 2		- C • C C 3 C		0.00.00	4,056
0.00	-0,0057	(,)1 27	0,00640	3,076	-1,0043	-0,0005	0.00433	4,956
	1	1851	ns	1	(DIJTS	IDE)
12	•	Y-ACT	112		X-ACT		TIR	C1 V
·							•	•
5.75	-0,0050	0,0054	1 11774	3,00%	-0,0016	0,0000	0,00172	4.084
	-0.0067		0,00726		-0,0025		0.00251	4.890
	-0.00==		0,00570		-0.0073		0.00321	4.692
	-0,0065		0,00600		-0.0024		0,00269	4.571
	-0,0050		0,00005		-0.0073		0,00330	4,470
	-0.0020		0,015-3		-0.0000		0.00290	4,265
	-0.0117		0,01443		-0,0050		0.00500	4.096
	-0.0146		0,01040		-0.0033		0.00371	2.882
. ,						• • • •	,.	• 5
77	X-ACT	Y - 1 C T	TTO					
1.00	-0,0000	0,000	r (r ~ ~)					
7,00	-0,0004	- 7,0060	0,00001					
PACE	THICKNE	55 (14)	1 Foc					
שורשו	ברזונה נו	EMOTE (12	1 14 662					

7' TO PISTANCE ERRN DACE (IN)

72 TS PISTANCE FROM MUSE (IM)

77 TO PISTANCE FORM MISE (IN) FOR THEFAS TIR



GHA PROJECTILE INSPECTION DATA

5/38 MK 56-0 LCT C4 PROJECTILE R3

INSPECTION PATE 11/15/70

	(INS	DF)	(nuts	Ins)
7 1	Y-ACT	Y-10T	TID	ATC	X- AC T	Y-AC T	TTR	CTA
1 20		-0.00 65	0,0,470	2,750		-0.0005	0.00132	4,983
3,00		-0.0036	0,01487	3,340	0.0027	0,0014	0.00304	5.122
0ت ′ د		-0.0043	0,00070	3,484		0.0652	0.00497	5.123
4.20		-0,00 64	C. C. 731	3,407			0.00202	4.086
£ , c0	*	-0,0040	0.10400	2,714		•	0.00120	4.056
4 (1)	0.0112	-7,7044	0.10475	2, b3 €	-0.0002	0.0001	0.00022	4,944
7 (1)	-0,0010	- 7,00 EV	(,(rr==;	3,050	0.0004	0.0002	0.00063	4.047
3 30	-0,11,777	-0,0070	C. (C 7 4 4	י, כיי כ	-0.0016	0.0	0.00160	4.063
ე, ≎ე	-0,0047	- 6 0166	C LIIUE	5,027	-0,0011	-0,0002	0.00112	4.952
	(1+51)		DUTS)
13	X - 1 C T	Y-11	TIP	1) 1 V	X-ACT	Y- 40 T	TIR	CIV
5 75	-0.0049	-0.0156	0.01414	2.040	0-0001	0.0034	0.00041	4.984
		-0,0194	0,01414		0.0001	0.0004	0.00041	4.984
→ , 7 5	-0.00//	-0,0147	0,01411	=, ann	-0.0013	-0,0001	0.00130	4.299
→, 75 3, 75	-0,00 <i>44</i> -0,00 <i>37</i>	-0,0147 -0,0147	C, C) 41.	7,000	-0.0013 -0.0021	-0,0001 -0,0002	0,00130 0,00211	4.299
→, 75 1, 75 1, 25	-0,0077 -0,0037 -0,0097	-0,0147 -0,0167 -0,0100	0.0120+	7,000 7,017 7,702	-0.0013 -0.0021 -0.0010	-0,0001 -0,0002 0,0004	0.00130 0.00211 0.00168	4,299 4.702 4.590
→, 75 1, 75 1, 25 2, 75	-0,0044 -0,0097 -0,0094 -0,0099	-0,0147 -0,0160 -0,0160 -0,067	C.O.C.Z C.O.C.Z C.O.ZOF C.O.ZOF	7,000	-0.0013 -0.0021 -0.0010 -0.007	-0,0001 -0,0002 0,0004 0,0001	0.00130 0.00211 0.00109 0.00071	4.299 4.702 4.590 4.427
→, 75 3, 75 1, 25 2, 75 2, 25	-0,0044 -0,0037 -0,0044 -0,0043	-0,0147 -0,0176 -0,0100 -0,0067	0,01211 0,01404 0,01706 0,01706 0,00670	7,000 7,017 7,702 0,340	-0.0013 -0.0021 -0.0010 -0.0007 -0.0019	-0.0001 -0.0002 0.0004 0.0001 -0.0003	0.00130 0.00211 0.00168 0.00071	4.499 4.702 4.590 4.437 4.273
→, 75 3, 75 3, 25 2, 75 2, 25 1, 75	-0,0044 -0,0047 -0,0044 -0,0047 -0,0047	-0,0147 -0,0100 -0,0100 -0,0067 -0,0060	0.01411 0.01404 0.01106 0.01077 0.00801	7,000 2,017 7,700 0,340 5,200	-0.0013 -0.0021 -0.0010 -0.0007 -0.0010 C.0002	-0,0001 -0,0002 0,0004 0,0001 -0,0003 0,0002	0.00130 0.00211 0.00108 0.00071 0.00192 0.00028	4.888 4.702 4.580 4.437 4.273 4.092
→, 75 3, 75 3, 25 2, 75 2, 25 1, 75	-0,0044 -0,0037 -0,0044 -0,0043	-0,0147 -0,0100 -0,0100 -0,0067 -0,0060	0,01211 0,01404 0,01706 0,01706 0,00670	7,000 2,017 7,700 0,340 5,200	-0.0013 -0.0021 -0.0010 -0.0007 -0.0019	-0.0001 -0.0002 0.0004 0.0001 -0.0003	0.00130 0.00211 0.00168 0.00071	4.499 4.702 4.590 4.437 4.273
→, 75 3, 75 3, 25 2, 75 2, 25 1, 75	-0.0044 -0.0097 -0.0094 +0.0060 -0.0065 +0.0067	-0,0147 -0,0100 -0,0100 -0,0067 -0,0060	0.01411 0.01404 0.01106 0.01077 0.00801	7,000 2,017 7,700 0,340 5,200	-0.0013 -0.0021 -0.0010 -0.0007 -0.0010 C.0002	-0,0001 -0,0002 0,0004 0,0001 -0,0003 0,0002	0.00130 0.00211 0.00108 0.00071 0.00192 0.00028	4.888 4.702 4.580 4.437 4.273 4.092

7,00 -0,0138 -0,0008 0,01603

PREJECTILE LENGTH (19) 14,445

71 IS PISTANCE FORM PASE (IN)

\$5 12 LISTANCE ESCH MOCE (IN)

72 IS DISTANCE EDEN MOSE (14) FOR THREAD TIR

APPENDIX C

Histograms and Statistics of Inspection Data

.01996 91328 10	
JOLE. VAZ. SKFWYTS° NO. JF GFLLS	
.412 .07349 .05918 .2.70139	
JANGE VASIANGE STD. DEV.	
2.96048 2.97353 3.11333	FRED
N MEAN MEDIAN MAXIMUM	CELL. MID.

HISTOGRAM AND STATISTICS OF INSIDE DIAMETER DATA

× × × ×

2.7110 2.7469 2.7926 2.8383 2.8841 2.9299 2.9757 3.0214 3.0572

1.9 Inches From Base

z	155	TOWVC	.356	COFF. VA.	. 60297
MEAN	3. 35 50€	FUNTIONA	ָר ז פּין פין פין	SAT AND SELL OF	
MEDIAN	3, 76830	5+0. nrv.	17676		.) -
MAXIMUM	3,3950	b. f. pd I. d I N	5.57437		

CELL. MID. FRED

`	× × × × ×		×××	***** *****
₩ C	M) P-	32		
3,3340	346	358	71	.385 .390

HISTOGRAM AND STATISTICS OF INSIDE DIAMETER DATA

2.9 Inches From Base

N MEAN MEDIAN MAXIMUM	155 5.49615 3.49633 3.52339	TANGE VA-IANGE STO. DEV.	3.462]n	COFF. VAS. SKEWAFSS MO. OF CELLS	.16992
GELL. MID. 3.462. 3.4638 3.4539 3.4823 3.4959 3.5954 3.5162	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	**************************************	**************************************	>	

HISTOGRAM AND STATISTICS OF INSIDE DIAMETER DATA

3.9 Inches From Base

2.52234 19
CJET. VAR. RKWNFSR NO. JF FELLS
.113.5 .0515 .01739 3.57500
SANGE VATANOF STO. DEJ.
155 3.60483 3.60430 3.5993
N MEAN MEDIAN MAXIMUM

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3.5760	3.5346	+		3.6262	3.6388		3,6639	3.6764	3.6895	

HISTOGRAM AND STATISTICS OF INSIDE DIAMETER DATA

4.9 Inches From Base

. JC531 3.12195 13								
COFF. VAR. SKRUJESC VO. DF CFLLS								
.15700 .00055 .32340 7.6040								
SAMSE VASTANCT STO, OEV.								
3.72375 3.72375 3.71933 3.44733								
N MEAN MEDIAN MAXIMUM								

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0 36 ធ	៤	7.4	65		67	2	٢	1	~	# 1
CELL. MID.	3.6940	3.7110	3.7280	3.745	3.7623	3.7793	3.7963	3.8130	3.830 J	3.8473

HISTOGRAM AND STATISTICS OF INSIDE DIAMETER DATA

5.9 Inches From Base

. 1059° 3.69269 13
COFF. UBS. SKEWIFSS VD. OF FFLES
.1342F .32225 .4233
PAGGE VARIANCE STI. IF /.
156 3.83994 3.83593 3.99437
N MEDAN MAXIMUM

	××××××××××××××××××××××××××××××××××××××
FRED	39 8 39 6 11 6 12 6 13 6 14 6 15 6 16 7 16 7 16 7 16 7 16 7 16 7 16 7 16
CELL. MID.	3.8105 3.8304 3.8569 3.8569 3.918 3.918 3.9327 3.9531 3.9736

HISTOGRAM AND STATISTICS OF INSIDE DIAMETER DATA

6.9 Inches From Base

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NAM	3.92401	VANIANCE	.60713	SKEWNESS	2.87985
MEDIAN	3.92300	5-7 De 4.	.01140	MJ. OF CFLLS	1.3
HOWIXER	3.39467	who Italia	3,95593		

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. MIJ.	
CELL	

3.9350	~	×
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.924	84	**********************
.934	12	××××
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.974	2	×
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3.9940	+	×

HISTOGRAM AND STATISTICS OF INSIDE DIAMETER DATA

7.9 Inches From Base

.00249 ?.61721 13
CHEF. 449. Skrwness NJ. HF CFLLS
.08760 .08013 .u1*34
SANGE VA TANDE STA TOVA
155 3.9268] 3.9250] 7.99410
TEAN TEOIAN TAXIMUM

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.37279 1.85727
SKFWMFSS SKFWMFSS MJ. JF GELLS
.03666 .10612 .01798 7.06310
PANGE VASIANCE STO. TEV.
155 3.93085 7.92903 3.99433
N MEAN MEDIAN MAXIMUM

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· MID
CELL

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3.9080	3.9176	.927	.936	3.9462	3.9558	3.9653	3.9749	3.9844	3.9940

.00235 .03877. 10
COLF. VAR. Skryypss Mu. ne nelle
.05461 .3756 .3758 .37928
STO DE VANCE STO DE VANCE
155 3.93421 5.93300 3.96530
N MEDIAN MAXIMUM

CELL. MID. FRED

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3.911		. 923	3.9293	3.9350	.941	3.9470	3.9530	3.9590	3.9655

HISTOGRAM AND STATISTICS OF INSIDE DIAMETER DATA

N MEDIAN Maximum	155 7,89557 3,8960 3,02363	AANGE VACIANCE JTU- JEV. MINIMU	. 1572.C . 10113 . 01143 3. 85603	COFF. VAR. SKFW1FSS NO. JF CELLS	.u0294 40333 13
CELL. MID.	Forg				
856	н	×			
853	2	××			
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878	13	XXXXXXXXXX			
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3.9081	31	XXXXXXXXXXXXX	*********	•	
915	7	XXXXX			
923	•	×			

HISTOGRAM AND STATISTICS OF INSIDE DIAMETER DATA

4.75 Inches From Nose

.00943 .37453 1.3
SKFWNESS 17. 7F CFLLS
.164°. .04124 .03519 ?.6531
RANGE VACIANDE STO. JEV. RIMIMUM
155 3.73327 3.72962 3.81786
N MEAN MEDIAN MAXIMUM

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.30977 36819 13
COFF. VA?. SKEWHESS MO. T CELLS
.1630g .031.5 .03238 3.38601
PANSE VARIANCE STO. OTV.
155 7,46935 3,47110 3,54913
N MEAN MEDIAN MAXIMUM

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CELL,	
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3.3860	3.4041	3.4222	3.4403		3.4765	3.4947	3.5128	3,5309	3.5490

HISTOGRAM AND STATISTICS OF INSIDE DIAMETER DATA

.3169n 27312	
COFF. VAD. SKFWYGS 10. OF STLL	× ×
2425 27256 24256 24256 24256	X X X X X X X X X X X X X X
VAPIANOT VAPIANOT STU. DOV.	**************************************
55 2.92938 2.93420 3.34100	652 623 623 634 744 744 744 744 744 744 744 744 744 7
N MEDAN MEDIAN MAXIMUM	CELL. MID. 2.8340 2.8303 2.8557 2.8557 2.9357 2.9620 2.9683 3.0147

z	155	19:16	• 012nu	COEF. VAR.	. 00042
MEAN	4.99307	VALIANCE	, 0.30 C.	SKENJUSS	38171
MEDIAN	4.98303	STT. DEV.	.01211	NJ. JF CFLLS	r T
MAXIMUM	4.93 9un	MIMITAL	4.97633		

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4.9760	4.9773	4.9787	4.9809	4.9813	2	0 786 7	4.9853	4.9867	0886.4

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CELL. MID.

HISTOGRAM AND STATISTICS OF OUTSIDE DIAMETER DATA

VA-TANCE STU- DEV.	
155 5.12355 5.12430 6.4243	
N MEAN MEDIAN AXTMIM	

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5.1190	5.1200	5.1213	5.122	5.1230	5.124.	5.1250	5.1260	5.1270	5.1286

A MEAN MEDIAN MAXIMUM	155 5.12393 5.12409 5.12800	VAFIANDE VAFIANDE STO. OEV.	ard .000u1 .00224 5.11900	COFF. VA7. SKF#4ESS 40. OF CTLLS	.06044 19313 17
CELL. MID.	FREQ				
5.1190	ж	×××			
5.1200	11	XXXXXXXXXXX			
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22 22 44 74

5.1240 5.1250 5.126u 5.1270

HISTOGRAM AND STATISTICS OF OUTSIDE DIAMETER DATA

3.9 Inches From Base

MEAN MEDIAN MAXIMUM	55 4.98362 4.98407 4.98953	DARGE VASTANCE STO. OFV.	.311.0 .31769 .31197 4.97930	34 DE JAS. 34 DITES. 30 DE CELLA	.15308 15308
CELL. MIN.	FREG				
4.978u 4.9792 4.9804 4.9817	24 3 4 5 3 4 5 3 5 5 5 5 5 5 5 5 5 5 5 5	**************************************	******* *)		

4.9829

4.9341 4.9353 4.9366 4.9378

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XXXXXXXXXXXXXXXXXXXXXXXXX HISTOGRAM AND STATISTICS OF OUTSIDE DIAMETER DATA

.00972 01374 10
COFF. VAR. SKEWNESS NO. JF CFLLS
.117.0 .00001 .0359 4.9499
DANGE VARIANCE STD. DEV. MINIMUM
155 4.95701 4.95700 4.95600
N MEDIAN MAXIMUM

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FREQ	m	6	14				80			۲
CELL. MID.	646	• 95	. 952	4.9547	4.9566	4.9584	4.9663	4.9622	4.9641	4.9560

HISTOGRAM AND STATISTICS OF OUTSIDE DIAMETER DATA

379 24414 11
Chife 147. Skruhfse 47. Or Crlls
. 721_1 . 1 3 E1 . 1 3 3 8 5
JASTANOT STO. DEV.
15c. 4.95c.74 4.957c.0 4.956u.0
N MEDN MEDIAN MAXIMUM

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4.9450	4.9473	4.9497	4.9520	4.9543	4.9567	4.9593	4.9613	4.96.7	4.966,

.00374 12845 13
COFF. JAD. SKFWNFSS 40. JF CFLLS
. 11263 . 13671 . 18365 4. 94610
ANGE VANIAJOE STO. DEV.
155 4.95612 4.95660 4.96513
N MEAN MEDIAN MAXIMUM

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4.94F.	4.94.1	4.95.2	4.9523	4.9544	4.9566	4.3037	4.9608	6-36-4	4.9650

HISTOGRAM AND STATISTICS OF OUTSIDE DIAMETER DATA

7.9 Inches From Base

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A E AN FOLLAN	155 4.95532 4.95531	VANIBE OFVE	5000 C	SKI WITSA	.00082
d	4.96703	HE TEMPA	0.546.4		2

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MID.	
CELL.	

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.00093 .70097
COEF. VAR. Skewnese NO. Of Cells
• 032°0 • 032°5 • • 046°0 • • 046°0
RANGE VARIANCE SID. DEV.
155 4.95697 4.95730 4.93133
N MEAN MEDIAN MAXI HUE

	×	**************************************	~~~~~~~	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	**************************************	****				>
Cuita		4	2.8	25	· •	•	С.	C	·:	•
CELL. MID.	3946.4	6646.4	4.9538	4.9577	4.9516	4.9654	4.9693	4.97.5	4.9771	4.9816

HISTOGRAM AND STATISTICS OF OUTSIDE DIAMETER DATA

.00730 .0586
COEF. VAP. SKEMNESS MO. JF GELLS
.007ug .30Jru .9315G 4.983G
RANGE VAPIANCE SID. DEV. MINIMUM
155 4.98341 4.9830 4.98700
N MEAN MEDIAN MAXIMUM

	× × ×	××××××		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
O add a	.	10	0	31	1
CELL. MID.	0.086.4	4.9808	4.9816	4.9823	

XXXXXX 4.9831 4.9839 4.9347 4.9854 4.987

HISTOGRAM AND STATISTICS OF OUTSIDE DIAMETER DATA

.jng71 .38585 13
COEF. VAR. SKEMMESS NO. JF CFLLS
.019u0 .00001 .00346 4.380u0
PAYGE VARIANGE SID. DEV. MINIMUM
155 4.88721 4.88700 4.89900
N MEAN MEAN MAXIMUM

CELL. MID. FREG

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4.5800	4.8321	4.8842	4.8963	4.8884	4.89.6	4.8927	4.8948	4.8969	2668.4	

HISTOGRAM AND STATISTICS OF OUTSIDE DIAMETER DATA

.16300 .16300
COFF. 742. SKEWNESS NO. JF CFLLS
.62000 .0091 .00346 .69230
DANGE VAPIANCE STG. DEV.
155 4.70671 4.70109 4.71230
N MEDIAN MAXIMUM

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4.6923	2469.4	969•	• 69	.730	. 703	• 735	.707	• 709	4.7120

.00187 .22722
SOLF. VAR. SKEWNESS NO. OF SELLS
.02360 .06661 .10387
PANGE VAPIANCE STD. DEV.
155 4.43771 4.43700 4.44990
N MEAN MEDIAN MAXIMUM

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•426	+ C	• •	•436	4.4388	.443	944.	0655-5

.00110
COFF. VAD. PKFWNESS WO. DE CELL
. 1240 9 1240 9 140 9 140 140 140 140 140 140 140 140 140 140
OAWGE VATIANCE FITO DEV.
155 4.89333 4.89433 4.10540
MEDIAN MEDIAN MAXIPUM

1.75 Inches From Nose

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4.1324 4.1050

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200 to 20

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4.0820 4.0846

4.0897

4.0922 4.0948

4.6973 6660.4

10 mg/m

CELL. WIJ.

.05612 1.50730
CTFF. VA?. SKEWNFSS NU. TF CELLS
.15.80 .0138. .0139.
CANGE VACIANCE CTO. OFV.
. 155 . 11457 . 11263 . u5272
N MEAN MEDIAN MAXIMUM

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CELL.

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HISTOGRAM AND STATISTICS OF INSIDE TIR DATA

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CACE. VAP. SKEWITS
.34610 .03.65 .3.750
0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
125 • 21293 • 21157 • 6464J
N MEAN MEDIAN MAXIMUM

CELL. MID. FRES

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•	7.7	45	5.5	67	7	<u>.</u> †	CI	c	+
. : : 0 3	.0054	.0105	.0157	.0258	. 1259	.0310	362	.0413	• 3464

HISTOGRAM AND STATISTICS OF INSIDE TIR DATA

N MEAN MEDIAN MAXIMUM	155 .11195 .81863 .03243	PAGSE VAPIDAGE STG. OFV.	.03160 .00.04 .00657	SOFF. VAR. SKEWHESS NO. OF CELLS	.54399 . 94587 11
CELL. MID.	FR53				
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+00·	3 23	XXXXXXXXXXXXXXXX	XXXXX		
700.	•	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXX	×××	
.0113		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXX	×	
.014		XXXXXXXXXXXXXXX	×		
.618	+1	XXXXXXXXXXX			
.021		XXXXXXXX			
.0254		×××			
.628	6	××			
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3.9 Inches From Base

.53203 . 81549 10	
CACWIESC CACWIESC NO. DE CELLS	•
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MEAN MEDIAN MAXISUM	CELL. MID.

4.9 Inches From Base

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.0312 .0344 .0173 .0139 .0171 .0273 .0234

× × × × × × × × ×

.53437 .68122 19
COFF. VAR. SKEWNESS NO. JF CFLLS
.02790 .02003 .02693 .06993
RANGE VAKIANCE STO. DEV. MIHIMUM
155 • U1091 • B1340 • U2873
N MEDIAN MEDIAN MAXIMUM

××××	************	**************************************	XXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	×		XXXXXX	××	××
9	26		36	51	13	2	or.	2	2
• 5000	.0039	97	.0101	13	.0163	.6194	.0225	.0256	. 6287

.55514 .46523	
1756. 418. 184155. 1861.	*
. 32490 . 0.00 50.00 545-0.	*
VAPIANCE CEVE	*
.01081 .01083 .02550	10 10 10 10 11 11 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
N MEDIAN MAXIMUM	.0067 .0057 .0035 .0095 .0113 .0113 .0201

N MEAN MEDIAN MAXIMUM	.01892 .01103 .02590	SANGE VAPIANGE SID. DEV. MTHIMIM	. 102460 . 13603 . 19539 . 16131	COEF. VA?. SKEWNESS NJ. OF CFLLS	. +9326 . 39177 13

CELL. MID. FREQ

1 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	*	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXX	XXXX	×	XXXXX	×
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HISTOGRAM AND STATISTICS OF INSIDE TIR DATA

.48954 .39555 1"
COFF. 143. SKEWYEST YO. DE CELES 17
. 02476 . 11063 . 5371.
MANGE VANTAUCE STO. OF J. GIMIMUM
155 • 11397 • #1658 • 02508
N MEAN MEDIAN MAXIMUM

Ford	
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CELL.	

> ×	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	*****************	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXX	XXXXX		××
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00	.0330	• 0358	.0385	11	. 0143	. 6168		.0223	.6253

.585°2 .585°2
COFF. VAD. SKEWNESS NO. OF GFLLS
.03170 .03794 .00595
VANIANCE STION OF STAN
155 • 41151 • 41130 • 63223
N MEDIAN MAXIMUM

HISTOGRAM AND STATISTICS OF INSIDE TIR DATA

9.9 Inches From Base

.1344

.0113

.0148

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CELL. MIJ.

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.0183 .0252 .0252 .0287

155 .01289 VANIDAGE .014150 .014150 .01100 STO. 1.1014310 AINTHUM .1.160	COEF, VAP. SKEWNESS RD. JF CFLLS	. 47879 1.03137 18
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CELL.
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.0016	36	.0168	-	.620.	7 450	.0293	.0339	.0385	.0431

M MEDIAN M AXIMUM	.01149 .01170 .03772	VANTANOS VANTANOS STO. DEV.	.33760 .03595 .03692	COEF. VA?. SKEWIESS NJ. JF CELLS	.69245 . 89810 13
CELL. MID.	Pard				
.6021	7	** ** **			

HISTOGRAM AND STATISTICS OF INSIDE TIR DATA

4.75 Inches From Nose

.0385 .0126

.0043

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×××××××

.0168 .0252 .0253 .0335

2	15T	21102	-1751.	COEF. VAR.	.6.755
MEAN	. CD 95 4	じしばしょ せん		SKEW LINGS	1 276 83
MEDI AN	. 37850	1	C 0 C 1	VIIIV W CN	
MAXI 4UM	. 3555.		1		7
CELL. MIR.	F en				
8 160.	-17 1	*****			
7400.	K 12	*******	XXXXXXXXX		
3850.	55	**********************	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	> × ×	
.6124		**********			
.0162		XXXXXXXXX			
.0201		>			
.0239	9	> > >			
.0279	1	>			
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. 35E	1	*			

M MEAN MEDIAN MAXIMUM	.01004 .00930 .1347	SABBE VASIANGE STO. OFV. MILLMOM	.33476 .0.0567 .36131	CDEF. VA. SKFWYESS NO. DF CELLS	.56357 1.10709 10
CELL. MID.	C 12.				
.0110 .0385 .01885 .01872 .0235	12 22 23 11 11 11	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	× ×	
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HISTOGRAM AND STATISTICS OF INSIDE TIR DATA

2.75 Inches From Nose

N MEAN MEAN MAXIMUM	.01313 .01170 .03620	SANGE VASIANGE STD. DEV.	.03430 .0.066 .00748	COFF. VAR. SKFWNESS NO. JF CFLLS	.57115 1.01775 10
CELL. MID.	FREC				
3.1		XXXXXX			
5	56	XXXXXXXXXXXXXXXXX	XXXXX		
90		^^^^^	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	
013		*****	XXXXXXXXXXXX	< · ·	
17	21	XXXXXXXXXXXXX	×		
7		XXXXXXXX			
7		××			
.0286	4	×××			
32		×××			
36		*			

N MEDIAN MAXIMUM	156 1.53226 1.53250 1.62600	VARIANCE STO. PEV. MINIMUM	.101.0 .035127 .03775 .03750.1	COFF. VAS. SKFWJESS NO. JF CFLLS	. 12418 12148 15
CELL. MID.	FRED				
1.435	0 1	* * * *			
477	1 2 1	*******	***		
~ ~	33	XXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
_	1	XXXXXXXXXXX	**********************	×××	
1.562	3 24	**************************************	***		
n .+	0 60	XXX			
626	0	××			

HISTOGRAM AND STATISTICS OF BASE THICKNESS DATA

N MEAN MEDIAN Maximum	156 15.64508 16.55703 16.7263u	PANGE VAPIANCE STD. DEV. MINIMUM	.23390 .01135 .03679 16.49303	COEF, VAR. SKEWNESS NO. OF CFLLS	.00221 -1.46794 ij
CELL. MID.	FREQ				
16.4930 16.5189 16.5448 16.5707 16.5966 16.6224 16.6483 16.7001	1429049H	**************************************	x x x x x x x x x x x x x x x x x x x	×	

HISTOGRAM AND STATISTICS OF PROJECTILE LENGTH DATA